JVC

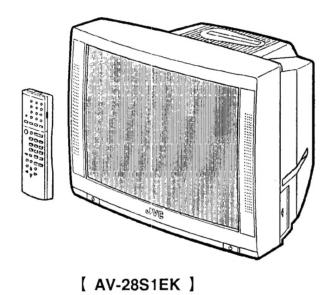
SERVICE MANUAL

COLOUR TV

AV-25S1EK AV-28S1EK

BASIC CHASSIS

MXII



For Service Manuals Contact MAURITRON TECHNICAL SERVICES 8 Cherry Tree Rd, Chinnor Oxon OX9 4QY Tel:- 01844-351694 Fax:- 01844-352554 Email:- enquiries@mauritron.co.uk

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3. Turning your TV ON/OFF

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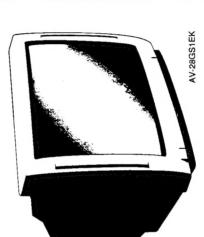
1. Connecting an aerial and power cord 2. Inserting batteries into your Remote Control 4. Setting programmed channels (PR channels)

PREPARATION (p. 7)

AV-25GS1EK / AV-28GS1EK

SER GUIDE

Thank you for purchasing this JVC colour television. To ensure your complete understanding, please read this manual thoroughly before operation.



OTHER FEATURES (p. 20)

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COLOUR TELEVISION AV-25S1EK / AV-28S1EK

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TROUBLESHOOTING (p. 36)



Specifications

Music Power: 6 W + 6 W + 11 W (AV-25GS1EK, AV-28GS1EK) 10 cm round x 2,13 cm round x 1 (AV-25GS1EK, AV-28GS1EK) Dimentions (W x H x D) : 599 mm x 505 mm x 446 mm (AV-25GS1EK, AV-25S1EK) 660 mm x 551 mm x 480 mm (AV-28GS1FK AV-28S1EK) 10 W + 10 W (AV-25S1EK, AV-28S1EK) RM-C871 x 1 (AV-25GS1EK, AV-28GS1EK) RM-C873 x 1 (AV-25S1EK, AV-28S1EK) 10 cm round x 2 (AV-25S1EK, AV-28S1EK) Standby 6.5 W (AV-25S1EK/AV-28S1EK) • EXT-1 : 21-pin Euroconnector (SCART) EXT-2: 21-pin Euroconnector (SCART) 59 cm (AV-25GS1EK, AV-25S1EK) 66 cm (AV-28GS1EK, AV-28S1EK) Headphone plug: stereo mini plug Average 115 W, Maximum 170 W, Standby 6.5 W (AV-25GS1EK) Average 125 W, Maximum 175 W, Average 115 W, Maximum 160 W, • EXT-3 : S-video input 4 pin DIN Standby 6.5 W (AV-28GS1EK) : CCIR I : PAL, NTSC (only in EXT mode) : E21-E69 Audio inputs 2 x RCA External speaker terminals Video input RCA 30.9 kg (AV-25GS1EK) 37.3 kg (AV-28GS1EK) REMOTE CONTROL AC 220-240 V, 50 Hz 29.3 kg (AV-25S1EK) 35.3 kg (AV-28S1EK) TV RF system Colour system Receiving channels Power input Power consumption External input/output Picture tube Audio output Accessoires Speaker Weight



Locations of Remote control buttons

Safety precautions

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION

TO ENSURE PERSONAL SAFETY, OBSERVE THE FOLLOWING RULES REGARDING THE USE OF THIS UNIT.

· Operate only from the power source specified (AC 220 — 240V, 50 Hz) on the

Avoid damaging the AC plug and power cord.
 Avoid improper installation and never position the unit where good ventilation

 Do not allow objects or liquid into the cabinet openings.
 In the event of a fault, unplug the unit and call a service technician. Do not is unattainable.

attempt to repair it yourself or remove the rear cover.

When you do not use this TV set for a long period of time, be sure to disconnect the power plug from the AC outlet.

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WARNING

DO NOT cut off the mains plug from this equipment, if the plug lifted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or adaptor or consult your dealer.

If nonetheless the mains plug is cut off, remove the fuse and dispose of the plug immediately, avoid a possible shock hazard by inadvertent connection to the mains supply.

If this product is not provided with a mains plug, or one has to be fitted, then follow the instruction given below:

IMPORTANT

DO NOT make any connection to the larger terminal which is marked with the letter E or by the safety earth symbol + or coloured green or green and yellow The wires in the mains lead on this product are coloured in accordance with the following code Blue: Neutral

As these colours may not correspond with the coloured marking identitying the terminals in your plug proceed as follows

Type A

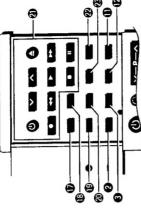
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

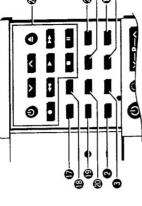
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

When replacing the fuse only a correctly rated approved type should be used and be sure to re-fit

IF IN DOUBT — CONSULT A COMPETENT ELECTRICIAN

How To Replace The Fuse open the blade screwdriver, and replace the fuse. The power plug is either type A or type B.)





	TELETEXT buttons	TV button	EXT button	STANDBY button	SLEEP TIMER button	CHANNEL RETURN button	PR/CH button	DISPLAY button	MUTE button	MENU buttons	P/N button	S-IN button	PR CHANNEL UP/DOWN be	• Numeric buttons	● button	
9			_		_								1			

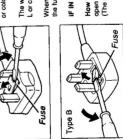
	* Illustrations are of the remain control DM. C971 coording with AV.	CINEMA button
	SEGRETARIAN SAIR OF MIS TEMBOR COMING TWO CO. 1 SEPPRING TWO CO. 1 SEP	VCR buttons
٠	* Remote control RM-C873 supplied with AV-25S1EK/AV-28S1EK	■ VSM (Video Statu
	 does not have HYPER BASS printed on the unit. For the locations of TV buttons and parts, please refer to page 6. 	W VSM (Video Statu

(1)

2

.

 VSM (Video Status Memory) button
 VSM (Video Status Memory) STANDARD button p. 19
 VSM (Video Status Memory) STANDARD button p. 19 VOLUME -/+ button
 PHYPER BASS button
 (any AV-25GS1EX)
 ASS (Acoustic Surround Processed PS)
 (wide screen) button
 (AVIET A putton)



2

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Some Do's And Don'ts On The Safe Use Of Equipment

This equipment has been designed and manufactured to meet international safety standards but, like any electrical apparatus, care must be taken if you are to obtain the best results and safety is to be assured.

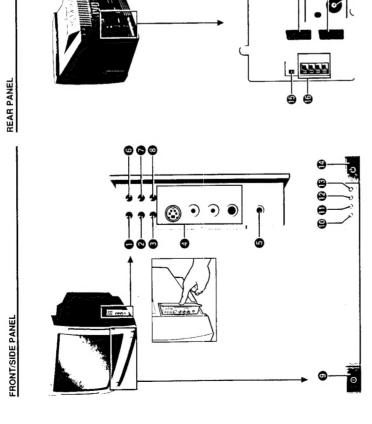
2		and the constitution institutions before your section at the section of the section is the section of the secti
3		read the operating its fluctions before you attempt to use the equipment.
8		ensure that all electrical connections (including the mains plug,
		extension leads and interconnections between pieces of equipment)
		are properly made and in accordance with the manufacturer's
2		instructions.
3		consult your dealer it you are ever in doubt about the installation or operation or safety of your equipment.
8		be careful with glass panels or doors on equipment.
•		
		•
ō	DON'T	continue to operate the equipment if you are in any doubt about it
		working normally, or if it is damaged in any way - switch off -
TWOO	ŀ	Withdraw the mains plug and consult your dealer.
LNOO	į	lerrove any inved cover as this thay expose darigerous voltages.
		specifically stated that it is designed for unattended operation or has a
		standby mode. Switch off using the switch on the equipment and make
		sure that your family know how to do this. Special arrangements may
. (!	need to be made for infirm or handicapped people.
LNOO	Ż	use equipment such as personal stereos or radios that may distract
č	1	you when driving. It is illegal to watch television while driving.
L CON	Z	listen to headphones at high volume, as such use can permanently
TINOU	F	damage your nearing.
3	-	obsulte verification of the equipment, for example with curtains or
		soft furtishings. Overrieating will cause damage and shorten the life of the equipment
L.NOQ	۲	use makeshift stands and NEVER fix lens with wood screws — to
		ensure complete safety always fit the manufacturer's approved stand
		or legs with the fixings provided according to the instructions.
TNOO	Ļ	allow electrical equipment to be exposed to rain or moisture.
•	:	
ABC	ABOVE ALL	ALL.
ı		NEVER let anyone especially children push anything into holes, slots
		or any other opening in the case — this could result in a fatal electrical
I		NEVER GLASS or take chances with electrical equipment of any kind. It
		is better to be safe than sorry.
•	:	

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Locations of TV buttons and parts

1. Connecting an aerial and power





SIDE PAREL		FRONT PANEL	
● EXT button	p. 30	Main power button	p. 8
PR (programme channel) DOWN button	p. 12	S-input select LED (yellow)	p. 30
VOLUME – button	p. 12	Stereo/bilingual LED (green)	p. 14
♠ EXT-3 terminals	p. 29	(Timer LED (orange)	p. 23
6 HEADPHONES connecter	p. 29	Power LED (Standby: red, Power ON: green)	р. 8
S-IN button	p. 30	Standby button	p. 8
PR (programme channel) UP button	p. 12	REAR PANEL	
VOLUME + button	p. 12	Speaker select switch	p. 32
		B External speaker terminals	p. 30
		■ EXT-2 connector	p. 29
			p. 29
		Aerial socket	p. 7
 TV unit illustrations are of the AV-28GS1EK. 			

	Condition: • You must use a 75-ohm coaxial cable to connect the aerial (not supplied with this TV).		AC outlet	
	Cond · You lo cr	(Rear panel)	Ket Power cord	
cord	(Example) UHF aerial	//////////////////////////////////////	Aerial plug 75-ohm coaxial cable Aerial socket	

2. Inserting batteries into your remote control

Press in and slide off the cover.

Condition:
Use two AA/R6 dry cell batteries.

Insert 2 batteries into the battery compartment.

3 Replace the cover.

Notes:
- Battery life is approximately 6 months to 1 year depending on the frequency of use.
- If the remote control operates enratically, replace the batteries.
- Concerty insert batteries observing + and - polarities.

TV unit illustrations are of the AV-28GS1EK.
 For the locations of remote control buttons, please refer to page 3.

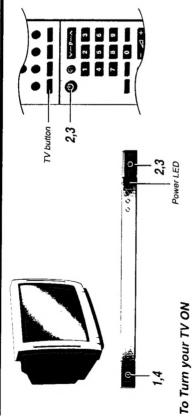
9

Server.

1-4 (No.50789)

6

3. Turning your TV ON/OFF



If your TV is in TV mode and you turn OFF/ON the Main power, your TV will enter TV mode automatically.

Press the Main power button.

The Power LED lights up red.

Θ

You can also use the numeric buttons or TV button to turn ON your TV.

To enter TV mode: Press the TV button.

The Power LED changes to green.
A picture will appear if you have set programmed (PR) channels and your TV is in TV mode.

Press the STANDBY button.

The Power LED changes to g

9

fo set programmed channels: Refer to page 9.

To view a TV programme: Refer to page 12.

Note:
We recommend that you turn the Main
power OFF if you do not plan to use
your TV for a long time and/or you wish
to save energy.

The Power LED changes to red.

• Your TV enters Stand-by mode. To view a programme, simply press the STANDBY button again.

Ð

Press the STANDBY button.

To turn your TV OFF

Press the Main power button to turn the Main power OFF.

The Power LED goes OFF.

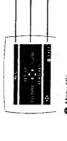
4. Setting programmed channels (PR Channels)

automatically or manually, and then access the channles by entering a 1 or You can programme channels (PR Channels) you frequently view

Note:

- You can set up to 60 programmed channels.

- When you programme channels automatically, broadcast stations are programmed from the lowest channel to the highest in numerical order. Automatic programming is recommended.
 - · When you programme channels manually, you can programme a broadcast station to your favourite programme channel number.



1 (1) 0

8 9

The MENU display appears in 3

Using the menu

- Menu title
 Operating area
 Help area: You can use buttons displayed here.
- When you select an item in any menu, that item is highlighted in yellow and/or indicated by P.
- However, if you are in the PROGRAM (programme) menu, you must press to exit the menu. To select the menu language, refer to • After setting is complete, press to (EXIT) to go back to each previous age of the menu.
 • To exit the menu by one action, press the DISPLAY button.

You cannot use the menu in Teletext

· A comma between buttons means to

To programme channels automatically

Turn the TV on, then press 3,

The PROGRAM (programme) menu appears.



The channel programming starts automatically. When programming is complete, PROGRAM (programme) menu. the display returns to the Press @

Press (g) repeatedly to exit the menu.

00

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PREPARATION

PREPARATION

To programme channels manually

Turn the TV on, then press 3,

▲, ▲ The PROGRAM (programme)menu appears.

Note:

• A comma between buttons means to press each button consecutively, not all at the same time.

Press V, OX
The manual programming menu appears.

Press ▼ to select the PR area, then enter the PR number you

10 18 18 1 C Example: To select PR01, press the numeric buttons 0,1.

want to set.

S

Press ▲ to select the CH/CC area, then enter the broadcast channel number you want to

CH: Broadcast channel

programme.

4

If the picture is not clear:
Press ▼ to select FINE.
Then press ◀ or ▶ to line-tune the channel.

Example: To select CH27, press the PR/CH button to select CH, and then enter 27.

To select a channel automatically

1. Press ▶

Scanning stops automatically when a broadcast channel is found. Scanning starts.

Press @

2



The display blinks once and the current channel settings are stored as a PR channel.
The next PR number appears in the PR area.
Repeat steps 3-5 to set all remaining broadcast channels as PR numbers.

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Settings are complete.

5. Selecting the MENU language

You can select the MENU to appear in one of 4 languages



The LANGUAGE menu appears. Press 63, ▲,

Motes:
• To stop scanning, press ◀ or ▶
• To stop scanning, press ◀ or ▶
• To ribe most appropriate broadcast
• Farnhe most area, please call each
station.

75% +135% 65% 4135% 65% 45% 1181365

Press ▲ or ▼ to select a language.

Setting is complete.
• Press the DISPLAY button to exit the menu.

10

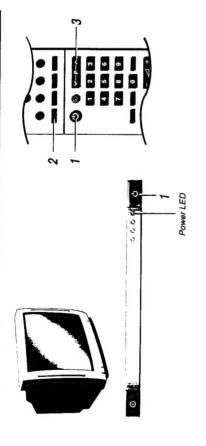
134 ch

3. . .

13

Direct selection

Viewing a Television Programme



The colour system is automatically selected. If the picture is not clear, you may need to change the colour system manually. Please refer to page 22. To enter a 2-digit PR number: 1. Press the -- button. 2. Enter a 2-digit channel number. PR: Programmed channel СН: Broadcast channel Example: To enter PR6, press the numeric button 6. Example: To enter 25, call up the CH-- display and Selecting a broadcast channel number.

*** 1. Press the PR/CH button repeatedly to display modes and select CH--æ press the numeric buttons 2,5. Selecting a programmed channel.

1. Press the PR/CH button to select PR.. 2. Enter a 1-digit channel number. 13 23 23 2. Enter the channel number. | |-4 5 6 . . . 0 0



If the Main power is OFF, the STANDBY buttow will not function.

You can also use the numeric buttors or TY button is turn ON your TV.

If your TY screen turns red, the channel is locked. Please refer to TO view a locked channel's locked channel on page 25.

Notes:

To furn the Main power OFF, press the Main power button.

We recommend that you turn the Main power OFF if you do not plan to use your TV for a fong linns and/or you wish to save energy. When the Main power is turned OFF, the clock will stop.

5 8 The Power LED changes to green and a picture appears on your TV Press the STANDBY button. 9 Ð

Your TV enters TV mode and the on-screen display appears for three seconds. A Press the TV button. 2

If your TV is already in TV mode, step 2 is not necessary. To view from a connected device, refer to "Viewing from a VCR, etc." on page 30.

5

P.R

3 Select a channel.

1. Press the PR CHANNEL UP/DOWN button. Scan selection
Only programmed channels can be selected. V-P-V v : to scan backwards to a channel number.

A: to scan forwards to a channel number.

Nate:

• You can also press the PR CHANNEL UP/DOWN button on your TV set.

5 Press the STANDBY button to turn your TV OFF.

The Power LED changes to red.

• Your TV enters Stand-by mode. To view a programme, simply press the STANDBY button again.

ම Ð

12

Listening to stereo or bilingual broadcasts

-MULTI SOUND

 Setting is complete. Press the DISPLAY button to exit the menu. 2. Press ◀ or ▶ to set the mute level.

SOUND MULTI SOUND MUTE TONE ASP

Note:

You can set the mute level from 0 to 15.

-TONE

Selecting a tone

You can select from the following 4 tones:

normal kondoctass programmes.

When you are listening to a programme in stees or builtypual mode, the stereor blingual to builty open.

When displaying the current channel mumber, the current channel appears to seconds.

Notes:
MULTI SOUND mode has no effect for

You can enjoy an acoustic atmosphere for music or sports programmes. You can also listen to programmes broadcast in the original language.

CLEAR

1. Press ∰, ▶, ▲

I : Bilingual I (sub I) Bilingual II (sub II)

Normal sound

 Setting is complete. Press the DISPLAY button to exit the menu. Press ▼ or ▲ to select a mode.

indicated by an arrow and the sound system mode (NICAM).

The MULTI SOUND menu appears. The mode "ON AIR" (being broadcast) is

1. Press @. ▶. ▼

Stereo sound

· HEAVY · VOCAL

The TONE menu appears.

tone.

2. Press ▲, ▼, ◄, or ▶ to select a

Note:

The USER SETTING always
corresponds to the most recent tone
selected (including bass and freble
settings).

Setting is complete. Press the DISPLAY button to exit the menu.

-MUTE

You can mute the volume completely (to 0) or to a preset level. It is convenient when you answer the phone or when someone suddenly visits.

Muting the sound

1. Press the MUTE button repeatedly.

Preset level → Sound 0 → Original level

-ASP (Acoustic Surround Processor) Listening to LIVE sound

 To listen to a LIVE sound effect, you must first select "STEREO SOUND" from the MULTI SOUND menu. Refer to page 14. Condition:

if the sound tevel is already lower than the preset level, the MUTE button has no effect, however if you press the MUTE button once more, the volume level will go to 0

You can experience the acoustic atmosphere of a theatre or sports arena.

 Press the ASP button. When in stereo mode

LIVE EFFEX: Live performance effect. No effect in monaural mode.

SURROUND OFF: Normal.

SURROUMB OFF - LIVE EFFEX - MALL EFFEX When in monaural mode:

SURROUMS OFF - LIVE CFFEX - STERED EFFEK

The selected mode is confirmed and disappears after approx. 3 seconds.

Note:

• When in EXT mode and listening to monaural sound, the display changes as in stereo mode, however there is no surround effect.

STEREO EFFEX:
Simulated stereo effect in monaural mode.

1ALL EFFEX: Concert hall effect.

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To preset the mute level

1. Press , ▼, ▼

The MUTE menu appears.

14

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annos

If available

HYPER-BASS SOUND/PICTURE

CINEMA VNR

Listening to Hyper-bass sound

SOUND

-HYPER-BASS

You can emphasize low tones by outputting more bass from the Hyper-bass speakers located at the top of your TV set. AV-25S1EK/AV-28S1EK do not have the Hyper-bass function.

1. Press the HYPER BASS button to alternate the ON/OFF status.

The selected mode is confirmed and disappears after approx. 3 seconds.

ON: When listening to a music programme

When not required.

You cannot hear Hyper-bass sound through headphones.

HYPER-BASS

 The selected mode is confirmed and disappears 1. Press the CINEMA button to alternate the ON/OFF status. after approx. 3 seconds.

• When you press the CINEMA button, when the picture/sound levels are set to the appropriate level. Hyper-bass turns, ON and the ASP enters LIVE EFFEX mode automatically. AV2551 EK (AV2851 EK do not have the Hyper-bass function. Whate the room as dark as possible to create the bast chema effect, and the second and the set of the second and the second to the second to the second the

the base colour for TV screens is blue, however, when you select CINEMA mode the base colour changes to red creating cinema-like colours.

You can enjoy the atmosphere of a cinema in your own home. Normally,

Creating a cinema effect

-CINEMA mode

• When in CINEMA mode you can brange base, and between the design protuction and ASP settings. However, factory settings will be restored if you press the CINEMA button again or turn the TV OFFON. AV-25STEK AV. 28STEK do not have the Hyper-bass

OFF: Normal screen ON: CINEMA mode

To set and turn Hyk er-bass ON/OFF

1. Press , ▶, ▲

The HYPER-BASS menu appears.



W anna

2. Press ✓ or ► to set the Hyper-

bass level.

3. Press to alternate the ON/OFF Settings are complete. Press the DISPLAY

button to exit the menu.

status.

-VNR (Video Noise Reduction) Reducing picture noise

You can improve the clarity of a picture by reducing picture noise, making the image softer.

E:ON/OFF B:EXIT 110 The VNR menu appears. 1. Press @ 4. ▼

2. Press @ to alternate the ON/OFF Setting is complete. Press the DISPLAY button to exit the menu.

B:ON/OFF B:EXIT

OFF: When viewing a normal picture. ON: When viewing a noisy picture.

91

VSM VSM STANDARD 16:9 PICTURE

—VSM STANDARD

You can restore picture adjustments to the factory settings (standard) if your personal VSM settings are unsuitable.

The standard picture settings are restored.

The selected VSM is confirmed and disappears

after approx. 3 seconds.

1. Press the VSM STANDARD

button.

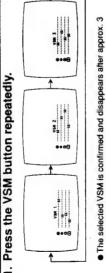
Setting the VSM standard

-VSM (Video Status Memory) Selecting picture adjustments

You can select from 3 preset picture adjustments, instantly giving you a

perfect picture without having to adjust each item.

 To select a VSM, first store picture adjustments in a VSM. Condition:



Wide screen viewing

You can enjoy a wider viewing screen by changing the aspect ratio from standard (4:3) to view panoramic pictures (16:9).

To view wide screen broadcasts, you require a D/D2-MAC decoder (not supplied with this TV). For further details, refer to the manual for the D/D2-MAC decoder.

Notes:

If you turn the Main power OFF/ON

If you turn the Main power OFF/ON again or you change channels, the standard aspect ratio of 4:3 will be

-16:9 (Wide Screen)

When a device having an aspect ratio switching function is connected to EXT-1 or 2, the aspect ratio is automatically switched.



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To store picture adjustments in a VSM

The PICTURE menu appears.

1. Press € . •

D: Sharpness ♣:
Brightness G : Contrast Golour

Press ▲ or ▼ to select an item, then press ◀ or ▶ to set the

Ch B:STORE B:EXIT

VSK 1

2. Press ▲, ◀ or ▶ to select a VSM.

You can only set TINT when in EXT mode NTSC 3.58 or NTSC 4.43.
 To set an item's level, refer to page 20.

D: 5x17

C B:STORE

Note:
• To store picture adjustments for another VSM, repeat steps 1 - 4.

1

4. Press @

The display blinks once and your picture adjustments are stored.

Settings are complete. Press the DISPLAY button to exit the menu.

18

PICTURE

21

OTHER FEATURES

OTHER FEATURES PICTURE/SOUND ADJUSTMENT SET CLOCK DISPLAY MESSAGES

Setting the Clock

-SET CLOCK

When the main power supply is interrupted the clock stops and CLOCK STOPPED appears. You will need to reset the clock.

Your TV has a built-in clock which keeps and displays the current time on the screen.

Adjusting the picture/sound temporarily

You can temporarily adjust the picture/sound by simply calling up the PICTURE/SOUND menu.

x 9:0 1477 8:0

The SET CLOCK menu appears.

1. Press @ , ▼ , ▲

The clock employs the 24-hour format.
If you enter the wrong number, press
or P to move the cursor, and reenter the correct number.

4.9 N-B. 14.1. 18.1

• If you have entered an invalid time, such as 25.61, the clock will not accept the number.
• To change the time, press 🖾 and repeat steps 2 – 3.

Example: To set 5:30am, press 0, 5, 3, 0. 10 set 9:30pm, press 2, 1, 3, 0.

2. Enter the current time.

Press ♥ or ▲ repeatedly to select an item, then press ◀ or ▶ to set the level.

The PICTURE/SOUND menu appears.

1. Press V

The display blinks once and the clock starts.

Setting is complete. Press the DISPLAY button to exit the menu.

* You can only set TINT when in EXT mode NTSC 3.58 or NTSC 4.43.

Greenish

40-08

Bright Sharp High

. Brightness ☐ : Sharpness O : Contrast

Dark ¥0

Low Soft P Low Left

Colour

Fint : Tint

Reddish

High High High

3. Press @

-DISPLAY MESSAGES Displaying the current TV status

You can display the channel number and ID, or the current time.

\$2:02 Press the DISPLAY button repeatedly. PR 02

The level is confirmed and the level indicator disappears after approx.

3 seconds.

Balance : Balance

• Treble 2 : Bass

 The setting is complete. The display will not change until you select another.

20

164 .

1

A Parket

OTHER FEATURES

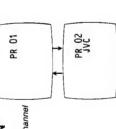
OTHER FEATURES
CHANNEL RETURN
COLOUR SYSTEM
AUTO SHUTOFF
SLEEP TIMER

-CHANNEL RETURN Returning to the previous channel

You can return to the previous channel quickly and simply. First turn to the news then to the football. You can then switch from the football back to the news quickly and simply.

Press the CHANNEL RETURN

Channels alternate between the previous channel and original channel.



Selecting the colour system manually —COLOUR SYSTEM

The colour system is automatically selected. If the picture is not clear, you can change the colour system manually.

1. Press the P/N button repeatedly.

When in TV mode: → AUTO → PAL

→ AUTO → PAL → N3.58 → N4.43 — When in EXT mode:

The selected colour system is confirmed and disappears after approx.
 3 seconds.

AUTO: Automatic colour system selection

N (NTSC) 3.58/N (NTSC) 4.43: Depending on the type of VCR you use.

I. Press the SLEEP TIMER button The OFF time increases in intervals of 10

repeatedly.

Note:

When you change channels or EXT mode, AUTO is restored.

Setting Auto Shutoff

-AUTO SHUTOFF

Note:

• You can only use this function in TV mode.

You can set your TV to automatically turn OFF after no broadcast signals are received for 10 consecutive minutes. Now you can doze off and, after the station stops broadcasting, your TV will automatically turn OFF.

The AUTO SHUTOFF menu appears.

1. Press @. ▼. ▼

2. Press @ to alternate the ON/OFF status.

Setting is complete. Press the DISPLAY button to exit the menu.

OFF:
When you are viewing a channel
receiving an extremely weak broadcast
signal, this function automatically turns
OFF the TV. In this case, turn OFF
Auto Shutoft.

ON: When you want your TV to turn OFF after no signals have been received for 10 minutes.

-SLEEP TIMER

of minute before the OFF time arrives, GOOD NIGHT1 appears.
The SLEEP TIMER only turns OFF the Power (Standby mode), not the Main power.

You can set your TV to automatically turn OFF within a specified period of time. Now you can monitor children's viewing hours, or doze off without

worrying about leaving the TV ON.

Setting the Sleep Timer

To display the remaining time of the set SLEEP TIMER: Press the SLEEP TIMER button once.

To cancel the SLEEP TIMER:
Press the SLEEP TIMER button to return the OFF time to 00.

The Timer LED goes OFF.

 The set OFF time is confirmed and disappears after approx. 3 seconds.

The Timer LED lights up orange.

→ 00 → 10 → 20 → 30 ... 100 → 110 → 120

22

Setting channel LOCK

OTHER FEATURES

You can lock channels so they can only be viewed by entering your secret ID number. This is convenient if you want to prevent children from viewing certain channels.

When you are programming channels, you will be prompted to enter your ID number to access locked channels.

Note:

- You can lock up to four channels using one ID number.

-LOCKS

7. Press @

The SET ID NO. display appears.



8. Enter your 4-digit ID number.

Settings are complete. Press the DISPLAY button to exit the menu.



Notes:

'I you enter the wrong number, compote entering 4 digits, then reenter a new ID number.

'To lock another channel, repeat steps
1 - 5.

To cancel LOCK

1. Select the channel in step 4 on the previous page, then press 63.

PR 01

1. Tune-in to the channel you want

To set channel LOCK

To view a locked channel

1. Select a locked channel.



Note:
As locked channels are automatically skipped when scanning with the PR CHANNEL UP/DOWN buttons, you can only select a locked channel using the numeric buttons.

If you forget your ID number: Refer to "To set channel lock", steps 2 – 8 on page 24.

 When you enter the correct ID number, the locked channel is tunedin.

• When you enter the wrong ID number, ???? appears and access is denied.

2. Enter your ID number.

Note: If you tuned-in a PR channel, its broadcast channel number appears.

The LOCKS menu appears.

3. Press 0.

A padlock icon appears. 2. Press @, ▼, ▶

You are prompted to enter your ID number.

4. Press ▲ or ▼ to select a LOCK

position.

Notes:

If you have already set an ID number settings are compeler. Press the DISPLAY button to exit the MENU.

To set or change the ID number, go to step 6.

The tuned-in channel number is entered, overwriting any previous setting.

5. Press @

6. Press ▼ to select SET ID NO.

Note:
• To set volume level for another channel, scroll up/down to another f number and repeat step 2

to increase volume (for low volume channels)

OTHER FEATURES
PR SUMMARY

Viewing and setting your programmed channel list

You can view a list of the status of your programmed channels (PR Channel). You can also set station ID, channel skip, and the station volume level for each PR Channel.

To browse the PR SUMMARY

The PR SUMMARY menu appears.

00000000

1. Press € . . .

-PR SUMMARY

3. Press ▲, ▼, ◀ or ▶ to select a character, then press @ Your selection is confirmed.

Repeat step 3 to complete the station ID.
 Settings are complete. Press (a) to exit and return to the PR SUMMARY menu.



Note:
• To set another station ID, scroll up/down to another PR number and repeat steps 2 – 3.

To turn Channel Skip ON/OFF

You can skip PR channels when using the PR CHANNEL UP/DOWN

1. Press

or

to select the SKIP column.

Note:

• When browsing the PR summary, you cannot set channel LOCKS. To set channel locks, refer to page 24.

spanding to the

Programmed channel number com Broadcast channel number com programmed channel number Station ID

Channel skip status
Channel skip status
Station volume level status
PR SUMMARY page number
Channel lock status
Previous page number
Next page number



2. Press @ to alternate the SKIP

To change settings, press ▲ or ▼ to select a PR number, then select

one of the following procedures.
 To exit the menu, press the DISPLAY button.

ON/OFF status.

Setting is complete.

No indication: Channel will not be skipped.

Note:
• To set SKIP for another channel, scroll up/down to another PR number and repeat step 2. S: Channel will be skipped.

You can set a standard volume level, from a choice of 3 set levels, for each 1. Press ▶ to select the station volume level column. channel.

To set the volume level for a channel

2. Press @ to select a volume evel.

to reduce volume (for high volume channels)

0: Normal volume

L + ← 0 ← - ←

Setting is complete.

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You can set and display a station ID for PR channels using up to 4

To set station ID's

1. Press

or

to select the ID

column.

Act V.
Act V.
Act Select C.
B. Press Co.
B. Select J. Press @

o set JVC as the station ID: Select the ID column. Press (12)

The STATION ID menu appears.

2. Press @

26

CARL!

OTHER FEATURES

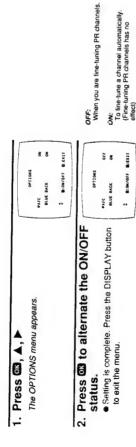
OTHER FEATURES/CONNECTION

AFC BLUE BACK CONNECTION DIAGRAM

-AFC (Auto Fine-Frequency Control) Fine-tuning channels automatically

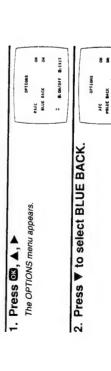
OTHER FEATURES

You can improve your TV's reception automatically. However, to fine-tune PR channels you may want to turn AFC OFF.



-BLUE BACK Turning non-broadcast channels blue

You can mute the sound and turn picture noise, that appears for channels not receiving broadcast signals, into a solid blue screen.



\$ B.ON/OFF BERTT 3. Press @ to alternate the ON/OFF Setting is complete. Press the DISPLAY button to exit the menu.

When you are viewing a channel receiving weak signals, the screen may turn blue, in this case, furn BLUE BACK OFF. ON: The screen for all channels not receiving broadcast signals will turn blue. # BEDM/OFF BEEXIT AFC BACK

-CONNECTION DIAGRAM Connecting external devices

Before connecting external devices, be sure to disconnect the TV from the AC outle

Notes:

When you connect a device to your
TV, refer to that device's manual for further details.

Picture quality may deteriorate due to noise from the interference of

occurs, turn OFF devices that you are

When you want to view from a connected device such as a VCR, you must first switch to the appropriate input mode. Refer to "Viewing from a VCR, etc." on page 30.

To select the output speaker refer to "Selecting the output speakers"

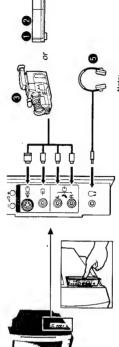
VCR S-VHS VCR Camcorder 000000

apart.

Use only speakers with an impedance from 8 to 16 chm.

Use headpones with a stereo miniplug (e3.5 mm).

Stereo speakers Headphones Decoder (CH PLUS,etc.)



Note:

• When using headphones, the speakers will not output sound.

28

CONNECTION EXT SELECTION EXT SETTING Note:
• To set volume level for another EXT mode, scroll up/down to another EXT number and repeat step 2

to increase volume (for low volume EXT mode)

normal volume

CONNECTION

							_				
EXT-3	(side)	٧١	1	الم 10	1	1	4	7	1	1	
EXT-2		1.1	٧٠٠	1.0	1		Ą	4	√ *3	٠,١	Automatic detection and switching of picture aspect rails.
EXT-1		10 /	4.5	700		٨	Ą	A	7 +2	1 .2	Automatic detection and switching of input mode. Automatic detection and switching of picture aspect
		VIDEO IN	VIDEO OUT	S-VIDEO IN	S-VIDEO OUT	RGB IN	AUDIO-L IN	AUDIO-R IN	AUDIO-L OUT	AUDIO-R OUT	Others

"Select VIDEO or S-VIDEO mode by the S-IN button.
"Only the TV broadcast is output,
"TV broadcasts or inputs from EXT-1 or 3 can be output. However, when you select EXT-2, no signate are output.

2. Press 3, ▲, ▼

The EXT SETTING menu appears.

 To change settings, press ▲ or ▼ to select an
 EXT mode, then select one of the following procedures.

To exit the menu, press the DISPLAY button



To set EXT ID's

1. Press ✓ or ► to select the ID



Example:
To set "VHS" as the EXT ID:
1. Select the ID column.
2. Press ©

7. Select S. B. Press D. B. Press D. B. Press D. Bolect E. Blank space).
10. Press us to return to the EXT SETTING menu.



Note:

• To set another EXT iD, scroll up/down to another EXT mode and repeat steps 2 - 3.

-: to reduce volume (for high volume EXT mode)

2. Press to select a volume level.

L + ← 0 ← - ←

Setting is complete.

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-

EXT SELECTION

Notes:

When you start playback from a VCR connected to EXT-1, the current mode

To view from a connected device you must select the appropriate input

Viewing from a VCR, etc.

You can set and display an EXT ID for EXT modes using up to 4 characters.

column.

is automatically released and switched to EXT-1. When the VOR is supped, the last EXT mode is restored.

• When you are viewing in TV mode and automatically switch to the device connected to EXT-1, the channel number of TV and "EXT-1" appear on the display.

2. Press @

The EXT ID menu appears.

3. Press ▲, ▼, ◀ or ▶ to select a

EXT-2 Ş

The selected EXT mode is confirmed and disappears after approx. 3

Press the EXT button repeatedly.

→ EXT-1 → EXT-2 → EXT-3 —

To select S-IN mode. Press the S-IN button.

character, then press @

Your selection is confirmed.

• Repeat step 3 to complete the EXT ID.

• Settings are complete. Press © to exit and return to the EXT SETTING menu.

To set the volume level for an EXT mode

You can set a standard volume level, from a choice of 3 set levels, for each EXT mode. Press ► to select the EXT volume level column.

—EXT SETTING

Viewing and setting the EXT mode list

To return to TV mode: Press the TV button.

To browse the EXT SETTING

You can view a list of the status of EXT modes. You can also set EXT ID, and the EXT volume level for each EXT mode.

1. Press the EXT button to engage EXT mode.

EXT-1

30

CONNECTION/TELETEXT OUTPUT SPEAKERS VCR CONTROL

-OUTPUT SPEAKERS Selecting the output speakers

CONNECTION

You can output sound from the built-in or external speakers.

1. Set the Speaker select switch, located at the rear of your TV set.

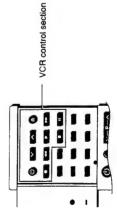
 If you select EXT speaker, Hyper-bass sound is still output from the Hyper-bass speaker. Refer to page 16.

AV-25S/EK /AV-29S/EK do not have the Hyper-bass turction. EXT: To output sound from the external speakers. INT:

To output sound from the built-in speakers.

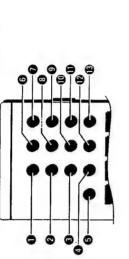
-VCR CONTROL Controlling your VCR via remote control

Buttons in the VCR control section on the remote control have the same function as those on the JVC VCR units.



Notes:
- Throughly read the instruction manual for your VCR.
- Some VCRs or some functions of VCRs might not be operable with this remote control.

Viewing a teletext programme



If you have problem concerning a leilest programme, constity your local dealer or television company.
 While watching a teletext programme, you can adjust the brightness and contrast.

REVEAL button
 TV/TXT/MIX button
 COLOUR(YELLOW) button
 COLOUR(BLUE) button

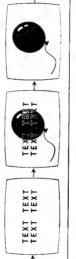
HOLD button COLOUR(GREEN) button COLOUR(RED) button SUB PAGE button DISPLAY CANCEL button
 STORE button

Basic teletext operation

- 1. Tune to the programme that is broadcasting teletext information.
- Press the TV/TXT/MIX button repeatedly to engage the TEXT mode.

vour Year receive who type of telerat programmes FLOF. TOP BBIN type of programmes are automatically recognized. If the programme is referred FLOF nor TOP, your TV will regard it as a standard telerate programme (WST). If HALIT is displayed when you press the TVX XTAMIX button, you can not operate the relevant turtion. Please wait until the indication disappears.

Your TV can receive two type of eletext programmes FLOF, TOP.



Select the page number you want to view. Scan selection Press the PR CHANNEL UP/DOWN button.

က

15.5 TEXT TEXT

V : To scan backwards to a teletext page A : To scan forwards to a teletext page.

COLOUR button selection
Press the COLOUR button corresponding to the page number displayed.

Direct selection Enter the 3-digit page number.

To return to TV mode, press the TV button.

TELETEXT

REVEAL button

DISPLAY CANCEL button To make teletext information disappear temporarily

While scanning for a teletext page that takes a long time to be reached, you can view a normal TV programme.

Select the page you want to view.

press the DISPLAY CANCEL button. તં

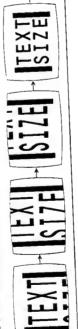
The current and selected page numbers appear in the upper left of the Your TV enters TV mode

When the page you selected appears, press the TV/ TXT/MIX button.

SIZE button

You can vertically double the size of the upper, middle or lower section of To enlarge teletext display

1. Press the SIZE button repeatedly. the teletext display



HOLD button

TEXT TEXT

You can hold a page temporarily, even as the teletext transmission

To hold a page

continues, to make a note of information.

Some Teletext pages have sub-pages, which scroll automatically. Any subpages you wish to view can be held or scrolled one at a time.

To view a sub-page

1. Call up a teletext page which has sub-pages.

Sub-page numbers appear at the bottom of the display.

RED (+): to scroll up one page GREEN (-): to scroll down one page

က်

INDEX button

Press the HOLD button to release the hold mode.

6

The current page remains on screen.

1. Press the HOLD button.

To return to the index page You can easily return to the index page.

1. Press the INDEX button.

FLOF: Returns to the programme designated INDEX page. roP: Returns to the TOP INDEX page.

Others: No change.

TEXT TEXT TEXT TEXT

4. Press the SUB PAGE button to continue automatic For Service Manuals Contact MAURITRON TECHNICAL SERVICES 8 Cherry Tree Rd, Chinnor

scrolling.

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* . .

To reveal hidden information

Certain teletext pages contain information, such as answers to questions, which you can reveal.

Press the REVEAL button to alternate reveal and hide.

---25 NM - 2

STORE button

You can store a frequently viewed page in any of the 4 COLOUR buttons To store pages to a COLOUR button

2. Press the STORE button.

1. Call up the teletext page you want to store.

3. Press the COLOUR button twice.

To call up a stored page

1. Press the MODE button.

MODE button

Brugier far.pmgs

nuples for one Blots for part

Press the COLOUR button corresponding to the page you want to view. က်

2. Press the GREEN button.

SUB PAGE button

+ press the RED or GREEN button to scroll sub-pages. 2. Press the SUB PAGE button to hold a sub-page.

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TELETEXT

Troubleshooting

If the power cord plug is disconnected from the AC outlet, or the TV aerial is causing problems, you may think there is a problem with the TV itself; be sure to check the following items before calling for service.

Important:
• Review all the instructions written in this booklet.

■ GENERAL

Problem	Cause	Action
No power supply	Is the power cord plug disconnected?	Insert the plug in an AC outlet (p. 7).
	is the Main Power switched off?	Press the Main Power button (p. 8).
No picture or sound	Is the aerial disconnected?	Check the aerial connections (p. 7).
	Is the input mode (IV, EXT-1, EXT-2 and EXT-3) set to an incorrect position?	Press the TV or EXT button to engage the correct mode (p. 12, 30).
inoperable remote control	Are the batteries exhausted?	Replace the batteries (p. 7).
	Are the batteries' +/- poles placed correctly?	Re-install the batteries correctly (p. 7).
	is the remote control too far from the TV?	Operate the remote control within approx. 7 metres of the TV.
The power shuts OFF automatically	Is the SLEEP TIMER set?	Press the STANDBY button to turn the TV ON again.
	Is AUTO SHUTOFF set?	Press the STANDBY button to turn the TV ON again.

aSound

Problem	Causes	Action
No sound	Are headphones plugged in?	Disconnect the headphones (p. 29).
	is the speaker switch set to "EXT"?	Set the speaker switch to "INT" (p. 32).
No sound with stereo broadcast	is the sound mode selection set to Normal mode?	Select "STEREO" from the MULTI SOUND menu (p. 14).
No sound for Sub-I or Sub-II for programmes broadcast with dual sound	Is the sound mode selection set to the another mode?	Select the appropriate mode from the MULTI SOUND menu (p. 14).

■ PICTURE

Problem	Cause	Action
The screen turns red	Have you tuned in to a locked channel?	Enter your ID number (p.25) or select an unlocked charnel.
Poor colours	Are the COLOUR and BRIGHTNESS controls adjusted incorrectly?	Adjust the COLOUR and BRIGHTNESS controls (p. 18, 20).
	is the wrong colour system selected?	Press the P/N button to select AUTO (p. 22).
	Is cinema mode selected?	Press the CINEMA button to select normal mode (p. 17).
Lines or streaks in picture (interference)	Could there be interference with a personal computer, TV VCR, audio	Move the components apart until the interference is eliminated.
	Station, etc.?	Move the aerial to a different position or direction.
Spotted picture (crosstalk)	Could there be interference from a hair dryer, electric cleaner, neon sign,	Move the aerial away from the source of interference.
	rigitaliskoti wire, automobile, motorcycle, etc.?	Replace the aerial cable with a coaxial cable, which is less prone to interference.
Double pictures (ghost)	Could the direct signals from a TV broadcast station be affected by	Move the aerial to a different position, height or direction.
	buildings, etc.?	Replace with an aerial having good directivity.
Snowy picture (image noise)	Is the external aerial cut or disconnected?	Check the aerial connection. Direct the aerial correctly (p. 7).
	Is the aerial turned in the wrong direction due to strong wind, etc. ?	Replace or repair the aerial.
	is the aerial damaged?	Replace or repair the aerial.
The screen turns blue	Is a non-broadcasting channel selected?	Select a broadcast channel.

Problem	Cause	Action
No receivable Teletext programme	is the TV tuned to a Teletext channel? Tune to a channel that broadcasts teletext information (p. 33).	Tune to a channel that broadcasts teletext information (p. 33).
	is the teletext broadcast on video tape?	You cannot watch teletext broadcasts recorded on a video tape.

The following are normal occurrences and are not the result of TV malfunctions:

When you touch the CRT surface, you might feel a slight charge of static electricity. This is because the CRT contains static electricity, it does not affect the human body.
 Your TV may emit a crackling sound due to a sudden change in temperature. There is no problem unless the picture or sound is abnormal.
 When a still bright image (of a white dress, for example) appears on the screen, the image may be coloured. This problem occurs in all CRTs, and as the bright image disappears, such colouration also disappears.

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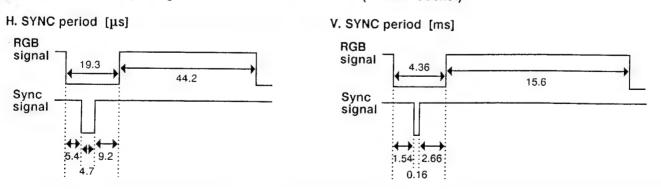
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SPECIFICATIONS

Item	Content				
Dimensions	25": 59.9cm (W) × 50.5cm (H) × 44.6cm (D)				
	28": 66.0cm (W) × 55.1cm (H) × 48.0cm (D)				
Weight	25": 29.3kg / 28": 35.3kg	25": 29.3kg / 28": 35.3kg			
TV RF System	CCIR (I)				
Colour System	PAL / NTSC (only in EXT m				
Teletext system	FLOF (United Kingdom system), TOP (West Germany system)				
Stereo system	NICAM				
Receiving Channels and					
Frequency	50. 500				
UHF	E21 - E69	470MHz - 862MHz			
Intermediate Frequency	00 5141				
VIF Carrier	39.5MHz				
SIF Carrier	33.5MHz				
Colour Sub Carrier Frequency PAL	4.42MU-				
NTSC	4.43MHz 3.58MHz / 4.43MHz				
Aerial Input Terminal	75Ω Unbalanced, Coaxial				
Actial hiput Tellinia	7532 Official riced, Coaxiai				
Power Input	220 - 240V AC , 50Hz				
Power Consumption	1	wa) 6 EW (standby)			
	25": 160W (max.), 115W (avg.), 6.5W (standby) 28": 160W (max.), 115W (avg.), 6.5W (standby)				
Picture Tube	25" (Visible size : 59cm) Diag	gonally measured			
	25" (Visible size: 59cm) Diagonally measured 28" (Visible size: 66cm) Diagonally measured				
	25" / 28" : FST (Flat Square	Tube)			
Viewable Picture Size		/ 28" : 54cm (W) × 41cm (H)			
High Voltage	25": 28kV ± 1kV (at zero be				
	28": 28kV ± 1kV (at zero be	am current)			
Focus Voltage	25": Approx. 8.7 kV / 28":				
Speaker	10cm Round Type, $8\Omega \times 2$				
Audio Output					
Music Power	10W + 10W	For Service Manual C			
Audio Power	5W + 5W	For Service Manuals Contact MAURITRON TECHNICAL SERVICES			
Addio Fower	344 + 344	Ollerry Tree Rd Chinner			
Remote Control Unit	Tel:- 01844-351694 Fav: 01944 95055				
Tomoto John Office	Email: enquiries@mauritron.co.uk				

■Recommended input signal of 21-Pin Euro connector (SCART socket)

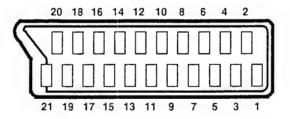


Design & specification subject to change without notice.

21-pin Euro connector (SCART socket) : EXT-1 / EXT-2

Pin No.	Signal Designation	Matching Value	EXT-1	EXT-2
1	AUDIO R output	500mVrms(Standard), Low impedance	○(TV)	(LINE)
2	AUDIO R input	500mVrms(Standard), High impedance	0	0
3	AUDIO L output	500mVrms(Standard), Low impedance	○(TV)	(LINE)
4	AUDIO GND		0	0
5	GND (B)		0	0
6	AUDIO L input	500mVrms(Standard), High impedance	0	0
7	B input	700mVρ-p, 75Ω	0	NC
8	SLOW SW input	Low: 0 - 3V, Middle: 4 - 7V, High: 8 - 12V, High impedance	0	0
9	GND (G)		0	0
10	_		NC	NC
11	G input	700mVp-p, 75Ω	0	NC
12	_		NC	NC
13	GND (R)		0	
14	GND (Ys)		0	NC
15	R / C input	R : 700mVp-p, 75 Ω C : Same as C component of 1Vp-p CVBS, 75 Ω	○(R/C)	O(only C)
16	Ys input	Low: 0 - 0.4V, High: 1 - 3V, 75Ω	0	NC
17	GND (VIDEO output)		0	0
18	GND (VIDEO input)		0	0
19	VIDEO output	1Vρ-ρ, 75Ω	○(TV)	O(LINE)
20	VIDEO / Y input	V : 1 V p-p, 75 Ω Y : 1 V p-p Positive, 75 Ω (Negative sync. provided)	0	0
21	COMMON GND		0	0

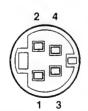
[Pin assignment]



Input connector : EXT-3

Connector	Pin No.	Signal	Matching Value
S(Y/C)-Connector	1	GND (Y)	
(4-pin)	2	GND (C)	
	3	Y input	1Vp-p, 75Ω (Negative Sync. Provided)
	4	C input	Same as C component of 1Vp-p CVBS, 75Ω
RCA-jack (V)	_	VIDEO input	1Vρ-p, 75Ω
RCA-jack (L)	_	AUDIO L input	500mVrms (Standard), High Impedance
RCA-jack (R)	_	AUDIO R input	500mVrms (Standard), High Impedance

[Pin assignment]



SAFETY PRECAUTIONS

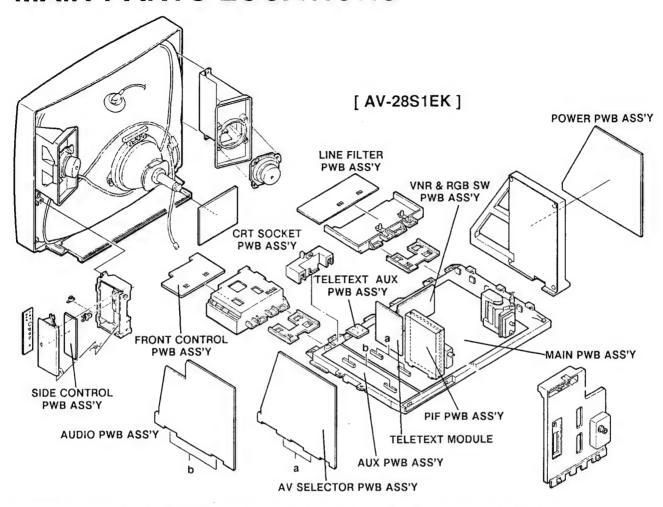
- The design of this product contains special hardware and many circuits and components specially for safety purposes.
 For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- Alterations of the design or circuitry of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replace -
- ment components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by ((A) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the Parts List of Service Manual may create shock, fire, or other hazards.
- 4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.

WARNING

- 1. This equipment has been designed and manufactured to meet international safety standards.
- 2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
- 3. Repairs must be made in accordance with the relevant safety standards.
- 4. It is essential that safety critical components are replaced by approved parts.
- 5. If mains voltage selector is provided, check setting for local voltage.

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Oxon OX9 4QY
Tel:- 01844-351694 Fax:- 01844-352554
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MAIN PARTS LOCATIONS



SPECIFIC SERVICE INSTRUCTIONS

PRECAUTIONS FOR WORK

- 1. When servicing the monitor, place it on a stable surface so it will not fall.
- 2. The AC plug or power cord can get caught under the TV during installation and so get damaged. Take sufficient care to avoid damage to the AC plug or power cord.
- 3. This monitor is designed for 220 to 240V AC, 50 Hz. Never connect it to other power supplies.
- 4. If any connectors or clamps are removed when the chassis is removed for servicing, reinstall them after servicing.
- 5. When the chassis is removed for servicing, connectors or ground wires may come off. Before turning the power on, check the they are connected correctly and that they do not touch the chassis.
- 6. Check the wires are clamped or fixed properly and do not contact any moving parts, heating parts, sharp edges, or power supplies (high voltage).
- 7. Since the following parts become hot, they must not contact electrolytic capacitors or wires.
 - → IC1441, Q1462, Q1541, IC1706, Q2001, D2031, IC0703, and heat sinks
- 8. Since the AUDIO PWB ASS'Y and AV SELECTOR PWB ASS'Y are installed upright, they may contact each other if the bracket is removed, avoid this when servicing.
- 9. When the POWER PWD ASS'Y shield is removed, the ground wire may come into contact with another part.
- 10.Before installing a fuse, check the fuse rating and the safety mark shown on the panel. When the fuse is installed, confirm that the fuse holder is fixed properly, and check the rating indication on the PWB ASS'Y.
- 11. Check as follows after servicing:
 - Has any solder or have any removed screws been left in the set ?
 - Have all connectors, covers, shield cases, and screws been put back and secured or tightened ?
 - · Are there any defects around repaired parts?
 - Have dirt and dust been removed? A build-up of dust can cause a malfunction due to moisture.

DISASSEMBLY PROCEDURES

Note: Before starting work, disconnect the power plug from the outlet.

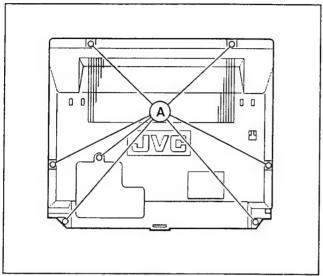


Fig. 1

Removing the REAR COVER

- 1. Remove the seven screws A.
- 2. Remove the REAR COVER.

Note:

 Once the REAR COVER has been removed, the set can easily tip over.

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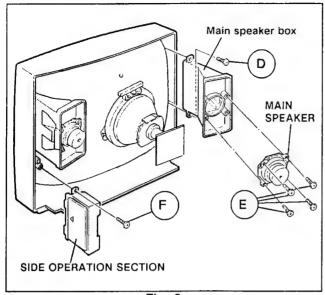


Fig. 3



- Remove the REAR COVER. [See "Removing the REAR COVER".]
- 1. Remove the four screws ©.
- 2. If the main speaker box is removed, remove the two screws ①.
- 3. Pull out the main speaker box toward you.

Note: The speaker cord connector (speaker side) may not be disconnected easily. If so, disconnect it carefully with pliers.

Removing the SIDE OPERATION SECTION

- Remove the REAR COVER. [See "Removing the REAR COVER".]
- 1. Remove the one screw (F).

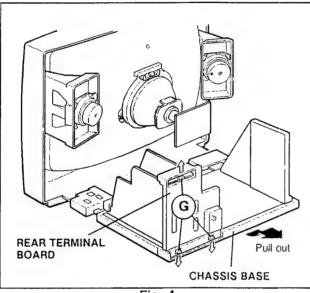


Fig. 4

Removing the CHASSIS BASE

- Remove the REAR COVER. [See "Removing the REAR COVER".]
- Lift the rear of the chassis base, and pull it out.
 When pulling it out, remove the strained wires. Before turning the power on, reinstall the removed wires.

Removing the REAR TERMINAL BOARD

- Remove the REAR COVER. [See "REMOVING the REAR COVER".]
- 1. Push hook ⑤ in the direction of the arrow, and release the REAR TERMINAL BOARD from the hook.
- Remove the cable between the aerial connecter on the REAR TERMINAL BOARD and the tuner, and remove the REAR TERMINAL BOARD.

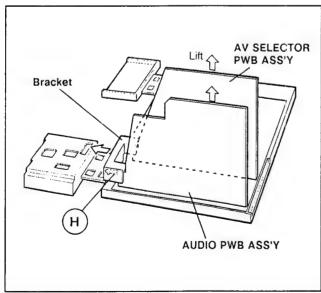


Fig. 5

Removing the AUDIO PWB ASS'Y & AV SELECTOR PWB ASS'Y

- Remove the REAR COVER. [See "Removing the REAR COVER".]
- Remove the REAR TERMINAL BOARD. [See "Removing the REAR TERMINAL BOARD".]
- Pull out the CHASSIS BASE. [See "Removing the CHASSIS BASE".]
- 1. Lift hook $\ensuremath{\Theta}$ and remove the bracket in the direction of the arrow.
- 2. Lift the AUDIO PWB ASS'Y or AV SELECTOR PWB ASS'Y.

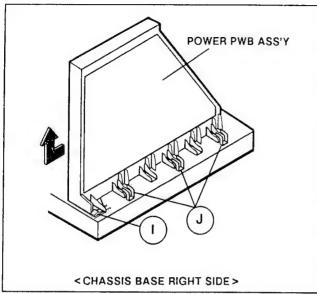


Fig. 6

Removing the POWER PWB ASS'Y

- Removing the REAR COVER. [See "Removing the REAR COVER".]
- Pull out the CHASSIS BASE. [See "Removing the CHASSIS BASE".]
- 1. Push hook ① down, slide the POWER PWB ASS'Y toward you, and release hook ②. Lift off the POWER PWB ASS'Y.

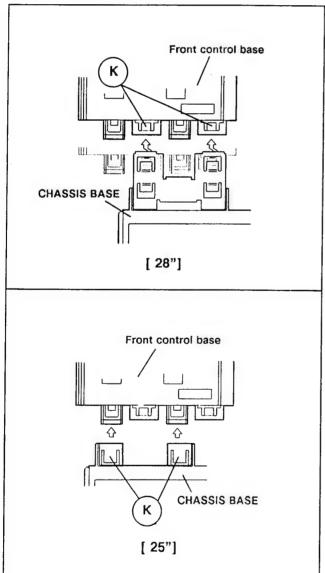


Fig. 7

Removing the FRONT CONTROL PWB ASS'Y

- Remove the REAR COVER. [See "Removing the REAR COVER".]
- Pull out the CHASSIS BASE. [See "Removing the CHASSIS BASE".]
- 1. Hold down hook ®, and remove the front control base in the direction of the arrow.

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DIAGNOSIS

Note: Before starting work, remove the power plug from the outlet.

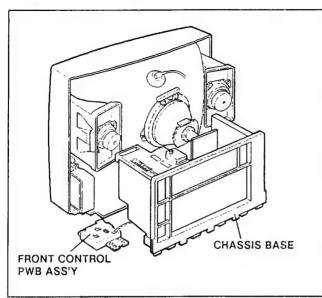


Fig. 8

Erecting the CHASSIS BASE

- Remove the REAR COVER. [See "Removing the REAR COVER".]
- Pull out the CHASSIS BASE. [See "Removing the CHASSIS BASE".]
- Remove the FRONT CONTROL PWB ASS'Y and LINE FILTER PWB ASS'Y. [See "Removing the FRONT CONTROL PWB ASS'Y".]
- 1. Erect the CHASSIS BASE.

Note:

- When the CHASSIS BASE is erected, confirm that each connector has been plugged in securely.
- The PWBs must not contact each other when the CHASSIS BASE is erected. if there is a possibility that they will contact each other, put a piece of paper between them.

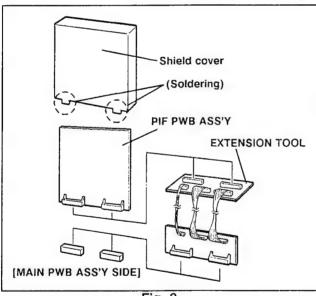


Fig. 9

Diagnosis of the PIF PWB ASS'Y

- To diagnose the PIF PWB ASS'Y, an extension connector is required. Use the EXTENSION TOOL (TV-J003 = for IF).
- 1. Remove the shield cover that encloses the PIF PWB ASS'Y.
- 2. Lift off the PIF PWB ASS'Y.
- Connect the EXTENSION TOOL (TV-J003) between the PIF PWB ASS'Y and MAIN PWB ASS'Y.
- 4. After diagnosis, remove the extension tool, and reinstall the PWB and the shield.

Note:

 When the PIF PWB ASS'Y is diagnosed with the EXTENSION TOOL, the PIF PWB ASS'Y must not touch another PWB.

REPLACEMENTS

Replacement of MEMORY ICs

The TV contains several EEP-ROM ICs. If these ICs are replaced, data must be reinput. IC704 and IC707 on the MAIN PWD ASS'Y store setting of video, deflection, and sound. If they are replaced with new ones., they do not contain data, and correct images cannot be displayed.

•IC704 (CAT35C104HP) on the MAIN PWB ASS'Y

This IC is mainly data of the items listed in Table 1 and 2.

- Symptom after IC replacement
 Pictures and sound are produced, but the broadcasts cannot received because no real channel is preset.
- 2. Replacement procedure
- 1) Before replacing the IC, receive a broadcast, and write down the values of the items listed in the Table 1.
- 2) Switch the power off and unplug the power cord.
- 3) Replace IC704.
- 4) Plug the power cord in and switch the power on.
- Set the values written down in step 1 with the remote control unit.
- 3. Data setting
- First, "PR channel" to receive broadcast. [See the OPERAT-ING INSTRUCTIONS.]
- Set the "MENU language". [See the OPERATING INST-RUCTIONS.]
- Set the "VSM-STD(0)". [See "SETTING AND ADJUST-MENT IN THE PRESET MODE" on page 2-20.]
- 4) The other items can be set in any order. Set each of them.
- ① Table 1 lists the items set by the user. Select and set each of the items on the MENU screen. [See the OPERATING INST-RUCTIONS.]
- Table 2 lists the items set by the serviceman. Select and set each of the items on the PRESET MODE screen. [See "SETTING AND ADJUSTMENT IN PRESET MODE" on page 2-20.]

•IC707 (24C01A/P) on the MAIN PWB ASS'Y

This IC stores deflection adjustment values. [See Table 3.]

- Symptom after IC replacement Picture are not displayed correctly.
- 2. Replacement procedure
- 1) Switch the power off and unplug the power cord.
- 2) Replace IC707.
- 3) Plug the power cord in and switch the power on.
- 4) Receive a TV broadcast.
- 5) Enter "PRESET MODE".
- 6) Select "DEFLECTION" and set each of the items listed in Table 3. [See "SETTING AND ADJUSTMENT IN THE PRE-SET MODE" on page 2-20.]

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Item to be set

User setting

Mode	Item to be set in TV	Item to be set in EXT
Menu	mode	mode
SET UP		
PROGRAM	0	×
LANGUAGE	0	0
OPTIONS	0	×
PR SUMMARY	0	×
EXT SETTING	×	0
PICTURE		
VSM 1	0	0
VSM 2	0	0
VSM 3	0	0
VNR	0	0
SOUND		
TONE	0	0
MUTE	0	0
MULTI SOUND	0	×
FEATURES		
SET CLOCK	0	0
LOCKS	0	×
AUTO SHUT OFF	0	×

Table 1

Serviceman setting

OCT VICCITIATE S	Setting					
Preset mode		Setting item				
VSM STD(0)	TINT	COLOUR	BRIGHT			
	CONTRAST	SHARP				
CINEMA	TINT	COLOUR	BRIGHT			
	CONTRAST	SHARP	BASS			
	TREBLE	BALANCE				
SUB-VSM	TINT	COLOUR	SHARP			
	(PAL / NTSC	3.58 / NTSC4.4	3)			

Table 2

Serviceman setting

DEFLECTION item	Variable range
1. V-LIN	-16~ + 15
2. V-SIZE	-32~ +31
3. H-SIZE	-32~ +31
4. EW-PIN	-32~ +31
5. TRAPEZ	-32~ +31
6. V-S. CR	0~31
7. V-EDGE	0~15
8. EW-COR	0~15

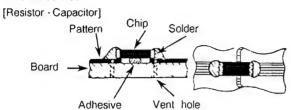
Table 3

Replacement of CHIP COMPONENTS

CHIPS ARE NOT USED ON CERTAIN MODELS. REFER TO THE DESCRIPTIONS ON THIS PAGE ONLY WHEN WORKING ON MODELS ON WHICH CHIPS ARE EMPLOYED.

Replacement of the chip on printed circuit board can be performed easily as follows.

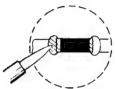
When mounted



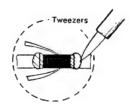
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Removal of the chip

- (1) Remove either of the soldered contacts.
- Hold the chip with tweezers and remove the other contact.
- Work the chip free from the adhesive with tweezers.







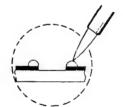




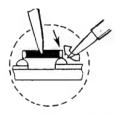
Preheating and soldering of chip pieces

Be sure to preheat chip pieces (except the transistor) especially the capacitor before soldering with hot air, about 150°C (hair dryer or such can be used) for about 2 minutes. Then, immediately solder with an iron of about 30W.

- Replacing the chip pieces
 - (1) Apply the solder to the board first.



(2) Hold the chip with tweezers and solder it in place, hold the iron at a 45° angle when soldering.



Discrete parts can be substitutionally mounted as shown in the figure on the right.

Mounting is also possible by passing the wires from the board front side (parts side) through the chip soldering hole (vent hole of registration part).

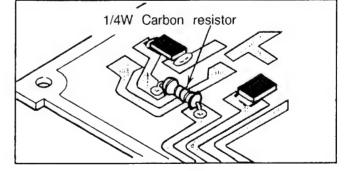
Substitute parts are as follows.

- Chip Metal Glaze Resistor
 - →Carbon Resistor

1/4W ±5%

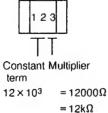
- Chip Ceramic Capacitor
 - →Ceramic Capacitor

50V ±5%

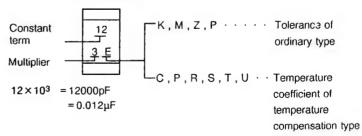


- Decoding of chip parts constant terms
 - < Chip Metal Glaze Resistor >









SERVICE ADJUSTMENTS

PRIOR TO STARTING ADJUSTMENT

Before starting adjustment

- Turn the TV and measuring equipment on and allow them to warm up (at least 30 minutes) before starting adjustment.
- Check that the AC power (240V AC) is being supplied correctly.
- 3. If the receive or input signal is not specified, use the most appropriate signal for the adjustment.
- Never touch parts (such as VRs, transformers, and capacitors) not shown in the adjustment items.
- The ADJUSTMENT LOCATION on all PWBs are included in the STANDARD CIRCUIT DIAGRAM. See this diagram.
- 6. Preparation for adjustment (presetting)
- 1) VSM (Video Status Memory)
- Set the TINT(30), COLOUR(30), BRIGHT(30), CONT.(45) and SHARP(30) levels.

(The setting for VSM STD(0) see " PRESET MODE " on page 2-20.)

	VSM STD(0)					
	TINT	30				
	COLOUR	30				
ĺ	BRIGHT	30				
	CONT	45				
	SHARP	30				
$\triangleleft^{\triangle}_{\nabla}$: STORE	: EXIT				

· After adjustment, set them to their original levels.

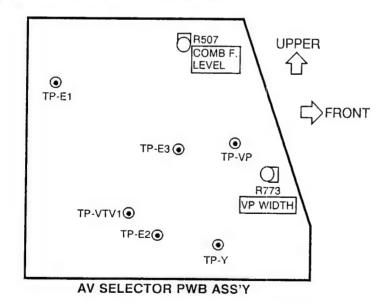
2) SSM (Sound Status Memory) : Standard

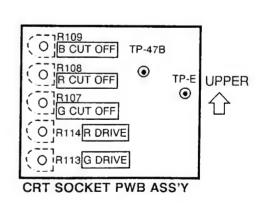
3) Colour system : AUTO
4) 16:9 : OFF (4:3)
5) CINEMA : OFF
6) VNR : OFF

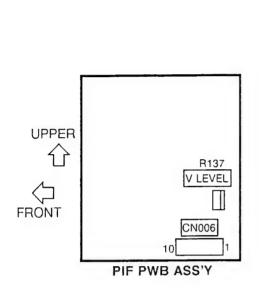
TOOLS AND FIXTURES FOR ADJUSTMENT

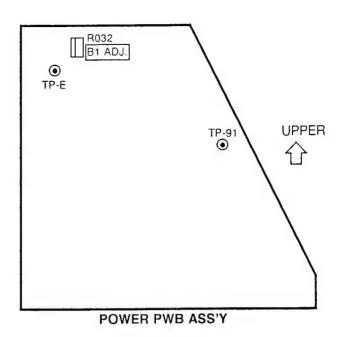
- 1. DC voltmeter (or digital voltmeter)
- 2. Oscilloscope [2 trace, delay function].
- 3. Signal generator (Pattern generator) [PAL / NTSC]
- 4. Multiplex audio signal generator
- 5. Remote control unit [RM-C873]

ADJUSTMENT LOCATIONS



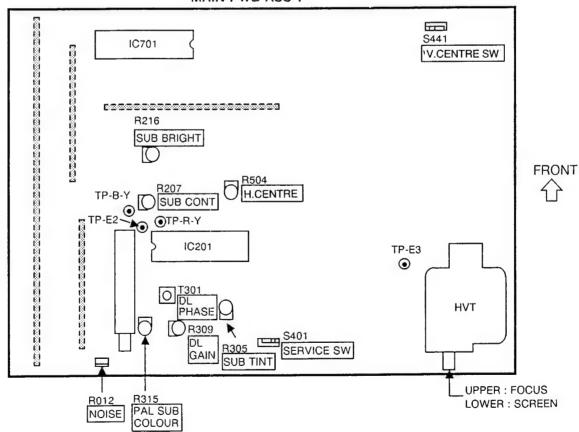






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MAIN PWB ASS'Y



ELECTRICAL ADJUSTMENT

Item	Measuring instrument	Test point	Adjustment part	Description
1. B1 VOLTAGE adjustment	DC voltmeter	TP-91	B1 ADJ. VR (R032) [POWER]	 Receive an entirely black signal. Connect the DC voltmeter to TP-91. Set 146 ± 0.5V DC with the B1 ADJ. VR.
2. NOISE (RF AGC) adjustment			NOISE VR (R012) [MAIN]	 Receive a broadcast. Turn the NOISE VR so that noise appears on the display. Turn the NOISE VR until the noise disappears. Change the channel and check that the display normal.
3. FOCUS adjustment	Signal generator		FOCUS VR [built-in FBT]	 Receive the cross-hatch signal. Make the vertical and horizontal lines as thin an clear as possible. Turn the control as for counterclockwise as possible (to decrease voltage). Darken the screen and check the focus is correct.
4. DEFLECTION SYSTEM adjustment				See the setting and adjustment in the PRESE MODE on page 2-20.
MAURI 8 C	Service Manuals Cont TRON TECHNICAL SERV herry Tree Rd, Chinno Oxon OX9 4QY B44-351694 Fax: 01844-3 I:- enquiries@mauritron.cc	or 52554	R CUT OFF VR (R108) G CUT OFF VR (R107) B CUT OFF VR (R109) R DRIVE VR (R114) G DRIVE VR (R113) [CRT SOCKET] SERVICE SW (S401) [MAIN] SCREEN VR [built-in FBT]	 Receive a black and white broadcast. Turn the R, G and B CUT OFF VRs counterclockwise. Set the R and G DRIVE VRs to the centre positions. Display one horizontal line. (Select the SERVICE SW from N to S.) Turn the SCREEN VR slowly until one red, green or blue horizontal line appears faintly. Turn the CUT OFF VR for the first colour that appears about 10 degrees clockwise, and adjust the SCREEN VR again so that this colour appears faintly. Adjust the CUT OFF VRs for the other two colours so that the colour has the same intensity as the colour of the horizontal line that appeared in step 6 and the three colours light faintly at the same level. Return the horizontal line to the original state. (Select the SERVICE SW from S to N.) Display a normal, bright white screen using the R and G DRIVE VRs.
S. VIDEO DETECTION DUTPUT LEVEL adjustment	Signal generator Oscilloscope [H-rate]	Connector- 006 pin-6 [PIF] or (TP-VTV1 AV SELECTOR)	V. DET. LEVEL VR (R137) [PIF]	 Receive the PAL split colour bar signal (including 100% white). Connect the oscilloscope to pin-6 of the connector-006 (or TP-VTV1). Set the voltage from the synchronizing signal to the white level to 1.5Vp-p with the V. DET. LEVEL VR.

Item	Measuring instrument	Test point	Adjustment part	Description
7. VERTICAL PULSE WIDTH adjustment	Signal generator Oscilloscope [V-rate]	TP-VP	VP WIDTH VR (R773) [AV SELECTOR]	 Receive the PAL split colour bar signal. Connect the oscilloscope to TP-VP and TP-3V. Set the oscilloscope sweep time to the vertical scanning period. Set the oscilloscope to delay mode and enlarge the signal start point. Adjust the VP WIDTH VR so the vertical pulse changes from high to low 1/4H before colour bar signal starts.
	TP-VP V pu	signal	nal start point	
8. COMB FILTER INPUT LEVEL adjustment	Signal generator Oscilloscope [H-rate]	TP-VTV1	COMB F. LEVEL VR (R507) [AV SELECTOR]	 Receive the PAL split color bar signal (including 100% white). Connect the oscilloscope to TP-VTV1, and confirm that the peak-to-peak voltage of the signal is 1.5 Vp-p. If not, perform "VIDEO DETECTION OUT-PUT LEVEL adjustment" again. Connect the oscilloscope to TP-Y. Adjust the range from the pedestal level to the white level to 0.7V with the COMB F. LEVEL VR.
			↑ 0.7∨ ↓	

ltem	Measuring instrument	Test point	Adjustment part	Description
9. DELAY LINE MATRIX adjustment	Signal generator Oscilloscope [H-rate] - IC201 pin-1 6.3 in the r	<u></u> >+□	DL GAIN VR (R309) DL PHASE transformer (T301) [MAIN] C201 pin-12 -	 Receive the PAL colour bar signal. Connect the oscilloscope to IC201 pin-14. Adjust the variable button of the oscilloscope so that the p-p value of the waveform (chroma signal) becomes 6.3 divisions on the screen of the oscilloscope. While maintaining this state, then connect the oscilloscope to IC201 pin-12. Adjust DL gain VR so that the p-p value of the waveform becomes 1 (-16dB) divisions on the screen of the oscilloscope. Connect the oscilloscope to TP-B-Y. Adjust with the DL PHASE transformer so that the waveform changes from (a) to (b) shown in the figure. Repeat adjustments steps 2 and 7 as required.
10. SUB BRIGHT adjustment	Signal generator		SUB BRIGHT VR (R216) [MAIN]	Check the WHITE BALANCE is adjusted. Receive an entirely black signal. Adjust the SUB BRIGHT VR until the entire screen lights.
11. SUB CONTRAST adjustment	Signal generator Oscilloscope [H-rate]	\vdash	SUB CONTRAST VR (R207) [MAIN] EV = AV-25S1EK EV = AV-28S1EK	Check the SUB BRIGHT is adjusted. Receive the PAL split colour bar signal. Adjust so that the best image appears on the screen with the SUB CONTRAST VR. [If measuring equipment is used] Receive the PAL split colour bar signal. Connect the oscilloscope to TP-47B. Adjust to refer to figure the voltage between the white and black levels with the SUB CONTRAST VR. For Service Manuals Contact MAURITRON TECHNICAL SERVICES Cherry Tree Rd, Chinnor Oxon OX9 4QY Tel:-01844-351694 Fax:-01844-352554 Email:-enquiries@mauritron.co.uk

Item	Measuring instrument	Test point	Adjustment part	Description
12. PAL/NTSC SUB COLOUR adjustment				See the setting and adjustment in the PRESET MODE on page 2-20.
13. NTSC SUB TINT adjustment	Signal generator Oscilloscope [H-rate]	TP-47B [CRT SOCKET] Cy Mg B	SUB TINT VR (R305) [MAIN]	 Check the SUB COLOUR is adjusted. Input the NTSC (3.58MHz) colour bar signal from the 21-pin external input connector(EXT1 or EXT2). Change the input mode to the signal input connector (EXT1 or EXT2). Adjust so that the best image appears on the screen with the SUB TINT VR. If you cannot adjust correctly with the SUB TINT VR, select SUB VSM TINT and adjust to the best value with the (-) and (+) keys on the remote control unit. Use EXT3 (S-VIDEO input) for input, and adjust in the same way. Use the NTSC(4.43MHz) signal, and perform steps 1 to 5 in the same way. Input the NTSC (3.58MHz) colour bar signal from the 21-pin external input connector(EXT1 or EXT2). Change the input mode to the signal input connector (EXT1 or EXT2). Connect the oscilloscope to TP-47B. Adjust so that there is no difference (0V) between white and magenta with the SUB TINT VR. If you cannot adjust correctly with the SUB TINT VR, select SUB BSM TINT and adjust to the best value with the (-) and (+) keys on the remote control unit. Use EXT3 (S-VIDEO input) for input, and adjust in the same way. Use the NTSC(4.43MHz) signal, and perform steps 1 to 6 in the same way.
				For Service Manuals Contact MAURITRON TECHNICAL SERVICES 8 Cherry Tree Rd, Chinnor

Oxon OX9 4QY
Tel:- 01844-351694 Fax:- 01844-352554
Email:- enquiries@mauritron.co.uk

SETTING AND ADJUSTMENT IN THE PRESET MODE

- 1. Set the following four items in the PRESET MODE
 - 1. VSM STANDARD
 - 2. CINEMA
 - 3. SUB-VSM
 - 4. DEFLECTION
- ★ For the operations and detailed settings in the PRESET MODE, see items below.

2. Basic operations in the PRESET MODE

(1) Entering the PRESET MODE

Press the DISPLAY key and VSM STANDARD key on the remote control unit at the same time.

The PRESET MODE menu screen shown Fig. 1 is displayed.

(2) Adjustment item selection

 To select an adjustment item, press the UP, DOWN, R or L key on the remote control unit.

The sub-menu for the selected adjustment item as shown Fig. 2 is displayed.

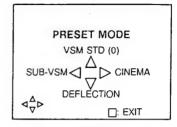


Fig. 1 Menu screen

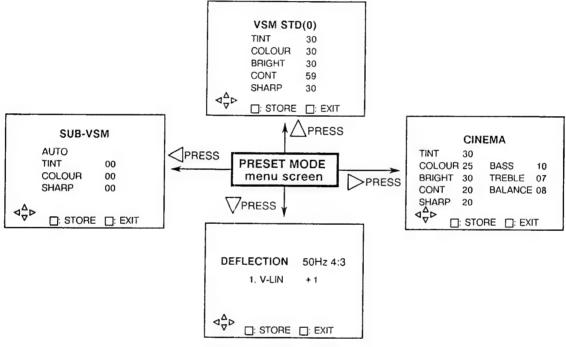


Fig. 2 Sub-menu screen

Adjustment items are displayed on the sub-menu screen.Select an item by pressing the UP or DOWN key.

(3) Adjustment and setting

- 1) Enter the PRESET MODE. [See item (1).]
- 2) Select an adjustment item. [See item (2).]
- Press the L or R key and adjust the setting of the selected adjustment item.
- 4) If adjustment is continued, repeat steps 2 and 3.
- 5) If all adjustments are complete, press the OK (STORE) key to store the adjustment values in memory.
- 6) Press the EXIT key to return to the menu screen.

(4) PRESET MODE termination

 After adjustment is complete and the menu screen returns, press the EXIT key again.

NOTE:

The symbols for remote comtroll unit keys in the text correspond to the keys listed in the table below.

REPRESENTATION	KEY
DISPLAY	+
VSM STANDARD	VSM →·←
OK, STORE, MEMORY	ОК
EXIT	Δ
UP	Δ
DOWN	∇
-, L, LEFT	\triangleleft
+, R, RIGHT	\triangleright

VSM STD(0), CINEMA, SUB-VSM setting and adjustment method

Item		uring ument	Test	point	Adju	stment part	Description
1. VSM STANDARD setting	Remote unit	control					 Display the PRESET MODE menu on the screen and select "VSM STD (0)". Select TINT and set its adjustment value to "30" with the (-) or (+) key.
		Adjustr	nent item	Setting v	value		Set other adjustment items to the values listed in the table on the left in the same way.
		TI	NT	30		1	
		CC	DLOUR	30			
			RIGHT	30			
			TNC	59			
		SF	IARP 	30		j	
2.	Remote	control					Display the PRESET MODE menu on the screen
CINEMA setting	unit						and select "CINEMA".
							2. Select TINT and set its adjustment value to "30"
			1]			with the (-) or (+) key. 3. Set other adjustment items to the values listed in the
	Adjus	tment	Setting	Adjustm	nent	Setting	table on the left in the same way.
	ite	m	value	item	1	value	
	TIN	T	30				
		LOUR	25	BASS		10	For Service Manuals Contact
		GHT	30	TREB		07	MAURITRON TECHNICAL SERVICES 8 Cherry Tree Rd, Chinnor
	SHA	ARP	20 20	BALAN		08	Oxon OX9 4QY Tel:- 01844-351694 Fax:- 01844-352554 Email:- enquiries@mauritron.co.uk
							Chair. Organies@madinion.co.uk
3.	Remote	control					[SETTING]
SUB-VSM setting	unit						Receive the PAL split colour bar signal.
and adjustment							Display the PRESET MODE menu on the screen and select "SUB-VSM".
							Select COLOUR and set its adjustment value to
		eceive signal					" + 00" with the (-) or (+) key.
	Adjust-	Signal	PAL	NTSC 3	3.58	NTSC 4.43	4. Select SHARP and set its adjustment value to
	ment item						"+00" with the (-) or (+) key. 5. Set the NTSC3.58 and NTSC4.43 in the same
	[Comp.	V]		1	_		way. Receive each colour system signal and set it
	TINT		_	00		00	to the value listed in the table on the left.
	11	OUR	00	00 *2	- 1	00 *3	★ For TINT, adjust for both the composite video input
	SHA [Sep. V		00	+ 05		+ 15	(EXT1 or EXT2) and separated video input. ★ If the EEP-ROM IC (IC704) is replaced, make sure
	TINT		_	+03		00	you carry out this setting.
	COL	OUR	00	(*2)		(*3)	★ If the screen becomes abnormal or if a component
	SHA		00	00		00	associated with COLOUR is replaced, set the
	adjusted	(they are	simply dis	splayed on	the s	cannot be creen). The e video are	values listed in the table (SUB-VSM setting) and perform the "PAL / NTSC SUB COLOUR adjustment".
	displayed	d at (*2) a	ind (*3) in t	the table.			

Item	Measuring instrument	Test point	Adjustment part	Description
<pal ntsc<br="">SUB COLOUR adjustment ></pal>	MAURI 8 C Tel:- 018	TP-47B [CRT SOCKET] SOCKET] GETVICE MANUALS COTRON TECHNICAL SE herry Tree Rd, Chi Oxon OX9 4QY 444-351694 Fax:-0184:- enquiries@mauritros	RVICES nnor 1-352554	 [ADJUSTMENT] Check the SUB CONTRAST is adjusted. (See page 2-18.) 1. Receive the PAL split colour bar signal. 2. Display the PRESET MODE menu on the screen and select "SUB-VSM". 3. Check the COLOUR level is "+00". If not, select COLOUR, and set it to +00 with the (-) or (+) key, and store it in memory with the OK key. 4. Adjust the PAL SUB COLOUR VR and set the screen colour density to the best value. 5. Input the NTSC (3.58MHz) colour bar signal from the 21-pin external input connector(EXT1 or EXT2). 6. Change the input mode to the signal input connector (EXT1 or EXT2). 7. Select COLOUR and set the screen colour density to the best value with the (-) or (+) key. 8. Input the NTSC (4.43MHz) clolour bar signal, and adjust in the same way. 9. Press the OK key to store the adjustment value in memory.
	<pal></pal>	W Cy Mg	8	 If measuring equipment is used] Receive the PAL split colour bar signal. Display the PRESET MODE menu on the screen and select "SUB-VSM". Check the COLOUR level is "+00". If not, select COLOUR, set it to +00, and press the OK key to store it in memory. Connect the oscilloscope to the TP-47B. Adjust so that the difference between white and blue is difference (-4V) with the PAL SUB COLOUR VR. Input the NTSC (3.58MHz) colour bar signal from the 21-pin external input connector(EXT1 or EXT2). Change the input mode to the signal input connector
	<ntsc></ntsc>	W Cy Mg		 (EXT1 or EXT2). 8. Select COLOUR and adjust so that there is no difference (0V) between white and blue. 9. Input the NTSC (4.43MHz) clolour bar signal, and adjust in the same way. 10. Press the OK key to store the adjustment value in memory.

4. Deflection adjustment method

- Before this adjustment is conducted, confirm that the "B1 VOLTAGE", "NOISE (RF AGC)", and "FOCUS" have been adjusted correctly.
- There are four adjustment modes according to the signals and aspect size. The screens are displayed in the following order.
 - ① 50Hz 4:3 screen ② 50Hz 16:9 screen
 - ③ 60Hz 4:3 screen ④ 60Hz 16:9 screen
 - ★ 50Hz = PAL 60Hz = NTSC (3.58 / 4.43)
- The basic mode is "① 50Hz 4:3 screen", and the others are auxiliary. So perform adjustment ① first, and perform other adjustments if any item is incorrect.
- If the keys associated with the following operations are pressed before storing the adjustment value with the OK key, the value before adjustment returns. To prevent this, do not press these keys.
 - ★Power on/off, EXIT, 16:9 screen switching, Input selecting, Channel selecting.

Display of adjustment values in adjustments ②, ③, and ④ If the adjustment value is displayed in magenta, it is outside the adjustment range and overflows in the + or - direction. Adjustment data becomes the maximum or minimum value in that mode. So the actual adjustment data and screen are not changed until the adjusted data is within the adjustment range.

Adjustment state	Adjustment value display colour	Adjustment data	Screen change
Overflow	Magenta	Fixed (maximum or minimum)	None
Within adjustment range	Blue	Variable	Yes

• Adjustment procedure

ltem	Measuring instrument	Test point	Adjustment part	Description
DEFLECTION SYSTEM				
adjustment				

• Reference adjustment value

Adjustment its	A divertment now -	Variable	Refere	AV-28 ence adj	BS1EK ustment	value	Refere	AV-2! ence adj	5S1EK justment	value
Adjustment item	Adjustment name	range	50 4:3	50 16:9	60 4:3	60 16:9	50 4:3	50 16:9	60 4:3	60 16:9
1. V-LIN	Vertical linearity	-16~ +15	+6	+ 8	+6	+5	+6	+9	+5	+5
2. V-SIZE	Vertical hight	-32~ +31	+ 13	-6	+12	-7	+10	-10	+10	-10
3. H-SIZE	Horizontal width	-32~+31	+3	+3	+3	+3	+5	+5	+5	+ 5
4. EW-PIN	Side pin correction	-32~ +31	-2	-16	-1	-16	-5	-19	-3	-18
5. TRAPEZ	Trapezoidal distortion correction	-32~ +31	-4	-4	-2	-2	-8	-16	-7	-7
6. V-S.CR	Vertical hight correction	0~31	19	12	20	13	20	13	21	14
7. V-EDGE	Vertical hight peripheral correction	0~15	15	11	15	11	15	11	15	11
8. EW-COR	Side pin four corner correction	0~15	10	6	10	5	9	2	9	2
9. V-COMP	Vertical high voltage variation control	0~15	4	4	4	4	4	4	4	4
10. H-COMP	Horizontal high voltage variation control	0~15	0	0	0	0	0	0	0	0
				enc are valu	e adjust referend les listed	erform the	alues lis s, the so above ta	ited abo et may i ible.)	ove. (Si	nce th set to t

Item	Measuring instrument	Test point	Adjustment part	Description
	Signal generator Remote control unit		V.CENTRE SW (S441) H.CENTRE VR (R504) [MAIN]	 Receive the monoscope signal. (If the monoscope is not available, receive the cross-hatch signal.) Display the PRESET MODE menu on the screen and select "DEFLECTION". Select "1. V-LIN" and adjust it so that the upper and lower parts of the screen are balanced with the (-) or (+) key.
	92% (screen size)	cture size (100%	Picture size (100%)	 If the vertical centre is shifted, change the V.CENTRE SW to the best position. Select "2. V-SIZE" and adjust it so that the height of the display area is about 92% of the screen height with the (-) or (+) key. (Fig 1) Adjust the H. CENTRE VR so that the right and left margins are equal (A = B). Fig. 2) Select "3. H-SIZE" and adjust it so that the width of the display area is about 92% of the screen width with the (-) or (+) key. Check the image is balanced vertically and horizontally. Repeat steps 3 to 7 if required. Receive the cross-hatch signal.
	A A	Fig. 2	B	 10.Select "4. EW-PIN" and adjust so that the vertical lines at the right and left ends are curved with the (-) or (+) key. The second line from right must be straight. (Fig. 3) 11.Select "5. TRAPEZ" and adjust so that all vertical lines are parallel to each other with the (-) or (+) key. (Especially, pay attention to the intervals of the lines at the right and left ends and in the middle.) 12.Check the screen and repeat steps 3 to 11 as required.
		Straig	Curved (Barrel-shaped)	 ★ If the screen cannot be adjusted correctly by "1. V-LIN" to "5. TRAPEZ", use "6. V-S. CR", "7. V-EDGE", and "8. EW-COR". ★ When the "① 50Hz 4:3" adjustment ends, change the signal, screen size, and input mode, and check the "② 50Hz 16:9", "③ 60Hz 4:3", and "④ 60 Hz 16:9" modes. If adjustment is incorrect, perform fine adjustment.
				For Service Manuals Contact MAURITRON TECHNICAL SERVICES 8 Cherry Tree Rd, Chinnor Oxon OX9 4QY Tel:- 01844-351694 Fax:- 01844-352554 Email:- enquiries@mauritron.co.uk

PARTS LIST

CAUTION

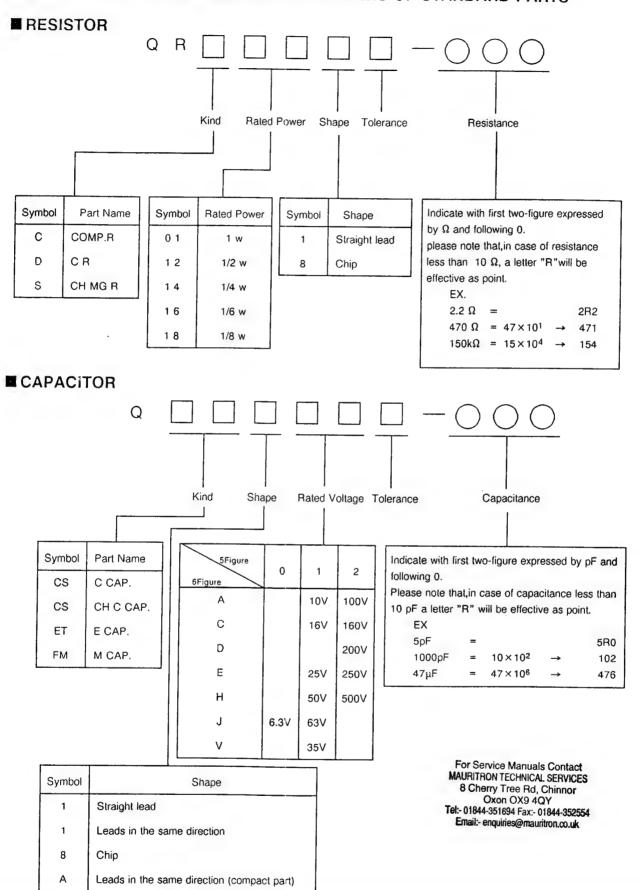
- The parts marked ♠ are very important for the safety. When replacing these parts, be sure to use specified ones to secure the safety and performance.
- The module circuit board is supplied together with the assembly, but the parts which do not have the drawing in this Parts List, P. C. Board Ass'y and the Parts No. columns of which are filled with lines . will not be supplied.
- As a rule, the resistors and capacitors which are indicated as shown in (NOTE 2) "HOW TO EXPRESS PARTS NUMBERS OF STANDARD PARTS" are not shown in the list of the parts on the board.
 - When ordering the service parts, confirm the resistance/rated power, capacitance/rated voltage, and type of the parts, then order by the part No. indicated according to (NOTE 2).

(NOTE 1) ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

	RESISTORS		CAPACITORS
CR	Carbon Resistor	C CAP.	Ceramic Capacitor
FR	Fusible Resistor	E CAP.	Electrolytic Capacitor
PR	Plate Resistor	M CAP.	Mylar Capacitor
VR	Variable Resistor	HV CAP.	High Voltage Capacitor
HV R	High Voltage Resistor	MF CAP.	Metalized Film Capacitor
MFR	Metal Film Resistor	MM CAP.	Metalized Mylar Capacitor
MG R	Metal Glazed Resistor	MP CAP.	Metalized Polystyrol Capacitor
MP R	Metal Plate Resistor	PP CAP.	Polypropylene Capacitor
OM R	Metal Oxide Film Resistor	PS CAP.	Polystyrol Capacitor
CMF R	Coating Metal Film Resistor	TF CAP.	Thin Film Capacitor
UNF R	Non-Flammable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH V R	Chip Variable Resistor	TAN. CAP.	Tantalum Capacitor
CH MG R	Chip Metal Glazed Resistor	CH C CAP.	Chip Ceramic Capacitor
сомр. п	Composition Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

				TOLER	ANCES				
F	G	J	к	М	N	R	Н	Z	Р
± 1%	± 2%	± 5%	± 10%	± 20%	± 30%	+30%	+ 50%	+80%	+ 100%

(NOTE 2) HOW TO EXPRESS PARTS NUMBERS OF STANDARD PARTS



EXPLODED VIEW

PRINTED WIRING BOARD PARTS LIST

EXPLODED VIEW PARTS LIST

2-30 (No.50789)

	2	מפפרו ומרומוו				•		
A59ECF10X05	PICTURE TUBE	V01 (AV-25S1EK)	Symbol No.	o. Part No.	Part Name	Description		Local
A66ECF30X05 CELD019-002J2	PICTURE TUBE DEGAUSSING COIL	V01 (AV-28S1EK) (AV-25S1EK)	VARI	S	TOR			
CELD020-00232	DEGAUSSING COIL	(AV-28S1EK)	R1012	QVPA603-223AZ	V R(NOISE)	22k Ω B		
CM35642-B01-F	PR STOPPER		* R1216	OVPE611-103HZ	V R(BRIGHT)			
CE42295-00AJ1	HVT(SERVICE)		* R1305	QVPE611-303HZ	V R(TINT)			
CM12374-D01-E	AV TER BASE		* R1309	OVPE611-102HZ	V R(DL GAIN)			
QMP51G0-20038	POWER CORD		* R1504	QVPE611-501HZ	V R(H.CENTER)			
CM46618-A01-E	CORD CLAMP		1					
CM12351-002-E	REAR COVER	(AV-25S1EK)	- SE	S	2			٠
CM12355-002-E	REAK COVER	(AV-ZBSIEK)	O#10741X		E 40	3 0	2 2	•
CM21933-022-E	DATING LABEL	(AV-2551EK)	4.440	OBX-10103-000	< 02 E 78	2 2 2		٠
CACAGOTON	TABLE CARE	(AV-ZOSIER)	1467	ORED191-8216		: c		٠
CM11754-F01-F	SIDE FRAME		* R1469	ORG039J-390A		: a		•
	1000		R1470	0RG029J-561	OM R	a	2W J	•
CM22501-A01-E	LF PB BASE		+ R1471	QRG029J-471		c		•
CM12352-RD1-F	CHASSIS BASE		* R1511	086019.1-3315			1W J	•
CM35757-401-F	CRI SPACER		*					
1 10 20 10 10 10 10 10 10 10 10 10 10 10 10 10	CONTRACTOR OF THE PARTY OF THE	,	21216	OBC0201-150		0 41	1 Mc	٠
CHIDS-LO-KU	SPEARER GIRT DOOR	7 X	CTCTV	QUECESO 1000	2 2 2		7 7 7	•
CM12388-AUZ-E	SIDE DOOR		01016	CAGOS STORY	5	; (7 767	•
LM35685-002-E	CONTROL SHEET		17618	URD1233-2203A	× × ×			•
CM4 / / 34-A01	SPRING		K1522	UK60290-223	× 6	2 (•
CM4/638-00A	DOOR LAICH		K1523	UKG0190-1025	× 1	30	7 X	•
	1		K1524	URFU/4K-5K3	ONF X	3 0		•
CM22604-B01-E	SIDE BASE		# R1525	ORG019J-121S		120 5		. 1
CE42112-001	PALJ CONNECTOR		K1526	URU1293-3905	ر	3	C W2/1	•
CM12475-002	CONTROL PANEL	(AV-25S1EK)					,	•
CM12476-002	CONTROL PANEL	(AV-28S1EK)	R152/	UKG029J-101A	Y WO	100 %	7 MZ	• •
CM47783-A01	IVC MARK		R1546	QRG029.3-101A			ZW 7	• •
CM47136-00B	DAMPER		R1561	QRV141F-6341AY	MF R		1/4W F	•
CHGB0010-0E-CE	BRAIDED ASSY	(AV-25S1EK)	* R1562	QRV141F-3901AY		3.9k \Q 1/4W	T. 3	*
CHGB0010-00-GS	BRAIDED ASSY	(AV-28S1EK)	* R1709	QRB089J-472			D. W.	•
			R1713	QRB089J-472	NET R	4700 D 1/10W	D.W.	•
CHGB0011-0A-CE	BRAIDED ASSY		* R1736	QRB065J-682	NET R	8800 \$2	7	•
CM12463-801-E	HORN	×S						
CM12464-B01-E			CAPA	CITOR				•
AEM4039-001-E			C1009	QCZ0118-104M	C CAP.			• •
CM47876-001			C1013	QC20118-104M	C CAP.	- L		
CM47877-001	CORD CLAMP	1	C1205	QCZ0118-104M	C CAP.	<u>.</u>	2 752	• •
CM47846-001	DOME ABSORBER	××	C1209	QFV/1HJ-104MZ	IF CAP.	الما		
GBSA4016N	TAPPING SCREW	×22	C1212	QFLC1HJ-103MZ	M CAP.	4		
			C1214	QEN61HM-105Z	BP E CAP.	<u>.</u>	200 W	
CHGY0011-AA-Y	CONNECTOR ASSY		C1301	QFLC1HJ-103MZ	M CAP.		500	•
CM47888-001-E	CORD CLAMP		* C1303	QFV71HJ-563MZ	TF CAP.	u.		•
CM12349-008-E	FRONT CABI ASSY	Inc. No. 101 ~ 104(25)	•					
CM12353-00B-E	FRONT CABI ASSY	Inc. No. 101 ~ 104(28)	+ C1304		M CAP.		ر ۸	*
CM35812-001	MAIN POWER KNOB		* C1306-08		M CAP.		ر ۷	•
CM35813-001	SUB POWER KNOB		* C1312	QFLC1HJ-103MZ	M CAP.			*
CM35110-002	SPRING	× 2	* C1313	OCZ0118-104M	C CAP.		2 15	•
CM22605-F01	PIINCH SHEFT	X 2 (AV-25SIFK)	* C1320	OFV71HJ-104MZ	TF CAP.		500	*
		,	C1322	OFV71HJ-104MZ	TF CAP.	0.1115		*
CM22606-A01	PUNCH SHEET	X 7 (AV-28STEK)	*	OEL C111-102M7	14 0.40			•
			13013	111 LC 103 - 103 M2	S CAP.		2	

For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
8 Cherry Tree Rd, Chinnor
Oxon OX9 4QY
Tel:- 01844-351694 Fax:- 01844-352554
Email:- enquiries@mauritron.co.uk

500 500 500 500 500 500

M CAP.
TF CAP.
C CAP.
C CAP.
C CAP.
C CAP.

OFLC1HJ-103MZ OEN61HM-226Z OFV71HJ-563MZ OF725CH-330Z OF725CH-230Z OC725CH-390Z OC725CH-390Z OFFCCH-390Z

0.01 µ F 1000 µ F 100 µ F 0.056 µ F 4.7 µ F 0.039 µ F

M CAP.

QFLC1HJ-103MZ QEHB1VM-108M QEHC1VM-107MZ QFLC2AJ-563MZ QEHC1HM-475MZ QFLCZAJ-393MZ

∆ Symbol No.	Part No.	Part Name	Description	Loca
C A P A C I C1461 C1462 C1463 C1465 C1468-69 C1501 C1503 C1504	T O R QFLC1HJ-223MZ QEM61HK-225MZ QFV71HJ-684MZ QFLC1HJ-473MZ QEM61HK-475MZ QCZ0118-104M QFV71HJ-104MZ QFLC1HJ-472MZ	M CAP. E CAP. TF CAP. M CAP. E CAP. C CAP. TF CAP. M CAP.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
C1509 C1512 C1513 C1514 A C1522 A C1523 A C1524 C1525	QFLC1HJ-123MZ QFLC2AJ-123MZ QFLC1HJ-393MZ QEM61HK-105MZ QFZ0117-1001S QFZ0112-1382S QFLC2AJ-104MZ QFP32GJ-123M	M CAP. M CAP. M CAP. E CAP. MPP CAP. MPP CAP. MPP CAP. PP CAP.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$,
C1526 C1527 C1528 C1533 C1542 C1563 C1568 C1593	QFZ0113-224S QFZ0113-393S QFZ0119-304S QFP32GJ-123M QEHB1VM-108M QFV71HJ-394MZ QFLC1HJ-103MZ QCT25CH-151Z	MPP CAP. MPP CAP. MPP CAP. PP CAP. E CAP. TF CAP. M CAP. C CAP.	$\begin{array}{ccccc} 0.22\muF & 25V & Z \\ 0.039\muF & 25V & Z \\ 0.3\muF & 25V & Z \\ 0.012\muF & 400V & J \\ 1000\muF & 35V & M \\ 0.39\muF & 50V & J \\ 0.01\muF & 50V & J \\ 150\rhoF & 50V & J \\ \end{array}$	2 4 4
C1594 C1702 C1705 C1706 C1707 C1708 C1711	QFV71HJ-104MZ QCZ0113-104M QCT25CH-220Z QCT25CH-820Z QEB61HM-104MZ QFLC1HJ-333MZ QFLC1HJ-563MZ QFLC1HJ-103MZ	TF CAP. C CAP. C CAP. C CAP. E CAP. M CAP. M CAP. M CAP. M CAP.	$\begin{array}{ccccc} 0.1\muF & 50V & J \\ 0.1\muF & 25V & Z \\ 22pF & 50V & J \\ 82pF & 50V & J \\ 0.1\muF & 50V & M \\ 0.033\muF & 50V & J \\ 0.056\muF & 50V & J \\ 0.01\muF & 50V & J \end{array}$	4 4 4 4
C1713 C1714 C1715 C1717 C1720 C1722 C1761 C1763	QCT25CH-100Z QCT25CH-120Z QCZ0113-104M QFLC1HJ-103MZ QFLC1HJ-103MZ QCZ0113-104M QCT25CH-270Z QFLC1HJ-682MZ	C CAP. C CAP. M CAP. M CAP. C CAP. C CAP. M CAP. M CAP.	10 p F 50V J 12 p F 50V J 0.1 µ F 25V Z 0.01 µ F 50V J 0.01 µ F 50V J 0.1 µ F 25V Z 27 p F 50V J 6800 p F 50V J	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
C1765 C1766 C1854-56	QCZ0118-104M QFV71HJ-474MZ QFV71HJ-474MZ	C CAP. TF CAP. TF CAP.		*
T R A N S F T1301 T1501 T1521 A T1541	ORMER CELT016-009J1 CE41970-001J1 CE40381-00A CE42295-001J1	DL.PHASE TRANSF. DRIVE TRANSF SIDE PIN TRANSF H V MODULE		4
C O I L L1001-04 L1201 L1301 L1521 L1522 L1523 L1524 L1541	CELP026-8R2Z CELP027-220Z CELP026-8R2Z CELC901-056J6 CELC009-003 CE41883-001J1 CELC051-821 CELC901-048J6	PEAKING COIL PEAKING COIL PEAKING COIL HEATER CHOKE CHOKE COIL LINEARITY COIL CHOKE COIL HEATER CHOKE	8.2 μ H 22 μ H 8.2 μ H 820 μ H	
L1542 L1701 L1702 L1703 L1761	CELP002-272Z CELP027-120Z CELP026-470Z CELP026-2R2Z CELP026-4R7Z	PEAKING COIL PEAKING COIL PEAKING COIL PEAKING COIL PEAKING COIL	2700 μ H 12 μ H 47 μ H 2.2 μ H 4.7 μ H	
D I O D E D1001	MA4330(M)-T2	ZENER DIODE		,

△ Symbol No	. Part No.	Part Name	Description	Loca
D I O D I D1002 D1201-02 D1441 D1442 D1443 D1461 D1462 D1463-64	MA700-T2 1SS133-T2 RD3.0ES(B2)-T2 1N4002ID-T3 MA4120(M)-T2 1N4002ID-T3 RD12E(B1)-T2 1SS133-T2	SI.DIODE SI.DIODE ZENER DIODE SI.DIODE ZENER DIODE ZENER DIODE SI.DIODE ZENER DIODE SI.DIODE		
D1465 D1501 D1502 D1503 D1521 D1522-23 D1524 D1525	MA700-T2 MA4091(M)-T2 MA4120(M)-T2 BAV21-T2 BY228-20 BYW95B-20 BYD33G-T3 RD27F(B1)-T3	SI.DIODE ZENER DIODE ZENER DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE ZENER DIODE		*
D1541 D1542-45 D1546 D1547 D1548 D1550-51 D1552 D1553	BYD33G-T3 BYW95B-20 BYD33D-T3 1SS133-T2 RD4.3E(B2)-T2 1SS133-T2 1N4003-T2 MA4068(N)C1-T2	SI.DIODE SI.DIODE SI.DIODE SI.DIODE ZENER DIODE SI.DIODE SI.DIODE ZENER DIODE		* * * *
D1591 D1592 D1593 D1701-02 D1703-04 D1705-14 D1716 D1717	RD3.6ES(B1)-T2 1SS133-T2 1SS252-T2 1SS146-T2 MA700-T2 1SS133-T2 1SS146-T2 1SS133-T2	ZENER DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE		* * * * * *
D1732 D1734 D1761 D1762 D1763 D1851-53 D1854-56	1SS133-T2 1SS133-T2 1SS146-T2 RD16ES(B3)-T2 1SS133-T2 1SS133-T2 RD13JS(B)-T2 1SS133-T2	SI.DIODE SI.DIODE SI.DIODE ZENER DIODE SI.DIODE SI.DIODE ZENER DIODE ZENER DIODE SI.DIODE		*
T R A N S Q1004 Q1201-03 Q1204 Q1205 Q1206 Q1305 Q1306 Q1307-08	I S T O R DTC144ES-T 2PC1815(YG)-T 2PA1015(YG)-T DTC144ES-T 2PA1015(YG)-T DTC144ES-T 2PC1815(YG)-T DTA144ES-T	DIGI TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR DIGI TRANSISTOR SI.TRANSISTOR DIGI TRANSISTOR DIGI TRANSISTOR SI.TRANSISTOR DIGI.TRANSISTOR		* * * * * * *
Q1401 Q1402-03 Q1461 Q1462 Q1463 Q1501 Q1502 Q1503-04	DTC144ES-T 2PA1015(YG)-T 2PC1815(YG)-T 2SD1408(OY) DTC144ES-T 2SC3669(OY)-T DTC144ES-T 2PA1015(YG)-T	DIGI TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR DIGI TRANSISTOR SI.TRANSISTOR DIGI TRANSISTOR DIGI TRANSISTOR SI.TRANSISTOR		* * * * *
△ Q1521 Q1541 Q1701 Q1702-03 Q1761-62 Q1763-65 Q1851-52	BU508AFI 2SD1266(P) DTC144ES-T 2PA1015(YG)-T 2PC1815(YG)-T DTC144ES-T 2PC1815(YG)-T	SI.TRANSISTOR SI.TRANSISTOR DIGI TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR DIGI TRANSISTOR SI.TRANSISTOR		* * * *

Loc		Description	Part Name	Part No.	Symbol No.
				STOR	TRANSI
			SI.TRANSISTOR	2PC1815(YG)-T	Q1901
	_		SI.TRANSISTOR	2SA966(OY)-T	Q1902
					I C
			I.C(MONO-ANA)	TA8759BN	IC1201
			I.C.(MONO-ANA)	TDA3654	IC1441
			I.C.	TA8859P	IC1461
			I.C.	M37204M8-A44SP	IC1701
			I.C(DIGI-MOS)	MN1280-Q	IC1702
			I.C(DIGI-MOS)	TC4066BP	IC1703
			I.C(MEMORY-OTH)	CAT35C104HP	IC1704
			I.C(DIGI-MOS)	UPD6326C	IC1705
			I.C.	TA78M05P	IC1706
			I.C(EP-ROM)	ST24C01B1	IC1707
					OTHERS
		(SMX0F901A-U2)	PIF PWB ASSY		
		(SMXON901A-U2)	VNR&RGB PWB ASSY TRANSF.HOLDER	CM46611-001-E	
			DELAY LINE	CE42038-001J1	DL1301
	J	82 Ω 1/4W	F R	ORZ0054-820M	FR1466
	Ĵ	10 Ω 1W	FR	ORHO17J-100M	FR1541
	j	1.8 Ω 2W	FR	ORH027J-1R8M	FR1542
	j	1 Ω 2W	FR	ORH027J-1R0M	FR1542
		1 30 CH	1 11	QKIIOZ70-IKOM	FR1545
	J	1 Ω 2W	FR	QRH027J-1ROM	FR1544
	J	1 Ω 1W	FR	QRH017J-1ROM	FR1545
	J	22 Ω 1/4W	FR	QRZ0054-220M	FR1547
	J	$4.7 \Omega 1/4W$	FR	QRZ0054-4R7M	FR1560
	J	12 Ω 1/4W	FR	QRZ0054-120M	FR1743
			BEADS CORE	CE41433-001	K1501
			BEADS CORE	CE41169-002J2	K1521
			BEADS CORE	CE41433-001	K1801
		SERVICE SW	LEVER SWITCH	QSL6A13-C01	S1401
		V.CENTER SW	LEVER SWITCH	QSL6A13-C01	S1441
			UHF TUNER	CEEM330-A01-G	TU1001
			CRYSTAL	CE40749-001J1	X1301
			CRYSTAL	CE40668-001	X1302
			C RESONATOR	CSB503F30-T2	X1501
			CRYSTAL	CE41887-001J1	X1701

MAIN PW BOARD ASS'Y (SMX-1904A-U2) [AV-28S1EK]

△ Symbol No	. Part No.	Part Name	Description	Local
V A R I A R1012 R1207 R1216 R1305 R1309 R1315 R1504	A B L E R E S I S QVPA603-223AZ QVPE611-103HZ QVPE611-103HZ QVPE611-303HZ QVPE611-102HZ QVPE611-103HZ QVPE611-501HZ	T O R V R(NOISE) V R(CONT.) V R(BRIGHT) V R(TINT) V R(DL GAIN) V R(PAL-C) V R(H.CENTER)	$\begin{array}{ccc} 22k\Omega & B \\ 10k\Omega & B \\ 10k\Omega & B \\ 30k\Omega & B \\ 1k\Omega & B \\ 10k\Omega & B \\ 500 & \Omega & B \end{array}$	
R E S I S R1445-46 R1448 R1449 R1457 R1469 R1470 R1471 R1511	QRG019J-561S QRX019J-2R7S QRX019J-2R2S QRG019J-821S QRG039J-390A QRG029J-561 QRG029J-471 QRG019J-331S	OM R MF R MF R OM R OM R OM R OM R OM R	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	J * J * J * J * J * J * J * J * J * J *
R1515 R1518 R1521 R1522 R1523 R1524 R1525 R1526	QRG029J-150 QRG029J-101A QRD123J-220SX QRG029J-223 QRG019J-102S QRF074K-3R3 QRG019J-121S QRD129J-390S	OM R OM R C R OM R OM R UNF R OM R C R	$\begin{array}{cccc} 15 & \Omega & 2 \text{W} \\ 100 & \Omega & 2 \text{W} \\ 22 & \Omega & 1/2 \text{W} \\ 22 \text{k} & \Omega & 2 \text{W} \\ 1 \text{k} & \Omega & 1 \text{W} \\ 3.3 & \Omega & 7 \text{W} \\ 120 & \Omega & 1 \text{W} \\ 39 & \Omega & 1/2 \text{W} \\ \end{array}$	J * J * J * J * J * J * J * J * J * J *
R1527 R1546 R1561 R1562 R1709 R1713 R1736	QRG029J-101A QRG029J-101A QRV141F-6341AY QRV141F-3901AY QRB089J-472 QRB089J-472 QRB065J-682	OM R OM R MF R MF R NET R NET R NET R	$\begin{array}{cccc} 100 & \Omega & 2 \text{W} \\ 100 & \Omega & 2 \text{W} \\ 6.34 \text{k} & \Omega & 1/4 \text{W} \\ 3.9 \text{k} & \Omega & 1/4 \text{W} \\ 4700 & \Omega & 1/10 \text{W} \\ 4700 & \Omega & 1/10 \text{W} \\ 6800 & \Omega & \end{array}$	J * J * F * J * J * J * J *
C A P A C C1009 C1013 C1205 C1209 C1212 C1214 C1301 C1303	I T O R QCZ0118-104M QCZ0118-104M QCZ0118-104M QFV71HJ-104MZ QFLC1HJ-103MZ QEN61HM-105Z QFLC1HJ-103MZ QFV71HJ-273MZ	C CAP. C CAP. C CAP. TF CAP. M CAP. BP E CAP. M CAP. TF CAP.	$\begin{array}{cccc} 0.1\mu\text{F} & 25\text{V} \\ 0.1\mu\text{F} & 25\text{V} \\ 0.1\mu\text{F} & 25\text{V} \\ 0.1\mu\text{F} & 50\text{V} \\ 0.01\mu\text{F} & 50\text{V} \\ 1\mu\text{F} & 50\text{V} \\ 0.01\mu\text{F} & 50\text{V} \\ 0.027\mu\text{F} & 50\text{V} \\ \end{array}$	Z * Z * Z * J * J * J * J * J *
C1304 C1306-08 C1312 C1313 C1320 C1322 C1324 C1325	QFLC1HJ-103MZ QFLC1HJ-103MZ QFLC1HJ-103MZ QCZ0118-104M QFV71HJ-104MZ QFV71HJ-104MZ QFLC1HJ-103MZ QFV71HJ-563MZ	M CAP. M CAP. M CAP. C CAP. TF CAP. TF CAP. M CAP. TF CAP.	$\begin{array}{cccc} 0.01\muF & 50V \\ 0.01\muF & 50V \\ 0.01\muF & 50V \\ 0.1\muF & 25V \\ 0.1\muF & 50V \\ 0.1\muF & 50V \\ 0.01\muF & 50V \\ 0.056\muF & 50V \\ \end{array}$	J * J * J * J * J * J * J * J * J *
C1327 C1328 C1329 C1330 C1331 C1332 C1333	QFLC1HJ-103MZ QEN61HM-225Z QFV71HJ-563MZ QCT25CH-330Z QCT25CH-220Z QCT25CH-120Z QCT25CH-120Z QCT25CH-390Z QFLC1HJ-103MZ	M CAP. BP E CAP. TF CAP. C CAP. C CAP. C CAP. C CAP. M CAP.	$\begin{array}{cccc} 0.01\muF & 50V \\ 2.2\muF & 50V \\ 0.056\muF & 50V \\ 33pF & 50V \\ 22pF & 50V \\ 12pF & 50V \\ 39pF & 50V \\ 0.01\muF & 50V \\ \end{array}$	J * M * J * J * J * J * J * J *
C1441 C1443 C1444 C1445 C1448 C1450 C1461 C1462	QFLC1HJ-103MZ QEHB1VM-108M QEHC1VM-107MZ QFLC2AJ-563MZ QEHC1HM-475MZ QFLC2AJ-393MZ QFLC1HJ-223MZ QEM61HK-225MZ	M CAP. E CAP. E CAP. M CAP. E CAP. M CAP. M CAP. M CAP. E CAP.	$\begin{array}{cccc} 1000 \ \mu \ F & 35V \\ 100 \ \mu \ F & 35V \\ 0.056 \ \mu \ F & 100V \\ 4.7 \ \mu \ F & 50V \\ 0.039 \ \mu \ F & 100V \\ 0.022 \ \mu \ F & 50V \\ \end{array}$	J * M * J * M * J * J * J * J * K *

Symbol No.	Part No.	Part Name	Description	Loca
C A P A C I C1463 C1465 C1468-69 C1501 C1503 C1504 C1509 C1512	T O R QFV71HJ-684MZ QFLC1HJ-473MZ QEM61HK-475MZ QCZ0118-104M QFV71HJ-104MZ QFLC1HJ-472MZ QFV71HJ-123MZ QFLC2AJ-123MZ	TF CAP. M CAP. E CAP. C CAP. TF CAP. M CAP. TF CAP. M CAP.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
C1513 C1514 C1522 C1523 C1524 C1525 C1526 C1527	QFLC1HJ-393MZ QEM61HK-105MZ QFZ0117-1001S QFZ0112-1382S QFLC2AJ-104MZ QFP32GJ-123M QFZ0118-224S QFZ0118-393S	M CAP. E CAP. MPP CAP. MPP CAP. M CAP. PP CAP. MPP CAP. MPP CAP.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
C1528 C1533 C1542 C1563 C1568 C1593 C1594 C1702	QFZ0119-304S QFP32GJ-123M QEHB1VM-108M QFV71HJ-394MZ QFLC1HJ-103MZ QCT25CH-151Z QFV71HJ-104MZ QCZ0118-104M	MPP CAP. PP CAP. E CAP. TF CAP. M CAP. C CAP. TF CAP. C CAP.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
C1705 C1706 C1707 C1708 C1711 C1712 C1713 C1714	QCT25CH-220Z QCT25CH-820Z QEB61HM-104MZ QFLC1HJ-333MZ QFLC1HJ-563MZ QFLC1HJ-103MZ QCT25CH-100Z QCT25CH-120Z	C CAP. C CAP. E CAP. M CAP. M CAP. M CAP. C CAP.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
C1715 C1717 C1720 C1722 C1761 C1763 C1765 C1766	QCZ0118-104M QFLC1HJ-103MZ QFLC1HJ-103MZ QCZ0118-104M QCT25CH-270Z QFLC1HJ-682MZ QCZ0118-104M QFV71HJ-474MZ	C CAP. M CAP. M CAP. C CAP. C CAP. M CAP. T C CAP.	$\begin{array}{cccccc} 0.1\muF & 25V & Z \\ 0.01\muF & 50V & J \\ 0.01\muF & 50V & J \\ 0.1\muF & 25V & Z \\ 27pF & 50V & J \\ 6800pF & 50V & J \\ 0.1\muF & 25V & Z \\ 0.47\muF & 50V & J \\ \end{array}$	
C1854-56	QFV71HJ-474MZ	TF CAP.	0.47 μ F 50V J	
T R A N S F T1301 T1501 T1521 T1541	ORMER CELT016-009J1 CE41970-001 CE40381-00A CE42295-001J1	DL.PHASE TRANSF. DRIVE TRANSF. SIDE PIN TRANSF H V MODULE		
C O I L L1001-04 L1201 L1301 L1521 L1522 L1523 L1524 L1541	CELP026-8R2ZJ2 CELP027-220Z CELP026-8R2ZJ2 CJ30030-056 CELC009-003 CE41883-001J1 CELC051-821 CJ30030-048	PEAKING COIL PEAKING COIL PEAKING COIL HEATER CHOKE CHOKE COIL LINEARITY COIL CHOKE COIL HEATER CHOKE	8.2 µ H 22 µ H 8.2 µ H	
L1542 L1701 L1702 L1703 L1761	CELP002-272Z CELP027-120Z CELP026-470ZJ2 CELP026-2R2Z CELP026-4R7ZJ2	PEAKING COIL PEAKING COIL PEAKING COIL PEAKING COIL PEAKING COIL	2700 μ H 12 μ H 47 μ H 2.2 μ H 4.7 μ H	
DIODE D1001	MA4330(M)-T2	ZENER DIODE		

∆ Symbol M	lo. Part No.	Part Name	Description	Local
D I O D	E MA700-T2	SI.DIODE		
D1201-02		SI.DIODE		
D1441	RD3.0ES(B2)-T2			
D1442	1N4002ID-T3	SI.DIODE		*
D1443	MA4120(M)-T2	ZENER DIODE		*
D1461 D1462	1N4002ID-T3 RD12E(B1)-T2	SI.DIODE ZENER DIODE		*
D1463-64		SI.DIODE		*
D1465	MA700-T2	SI.DIODE		*
D1501	MA4091(M)-T2	ZENER DIODE		*
D1502 D1503	MA4120(M)-T2 BAV21-T2	ZENER DIODE SI.DIODE		*
D1521	BY228-20	SI.DIODE		*
D1522-23	BYW95B-20	SI.DIODE		*
D1524	BYD33G-T3	SI.DIODE		*
D1525	RD27F(B1)-T3	ZENER DIODE		
D1541	BYD33G-T3	SI.DIODE		*
D1542-45 D1546	BYW95B-20 BYD33D-T3	SI.DIODE		*
D1547	1SS133-T2	SI.DIODE SI.DIODE		*
D1548	RD4.3E(B2)-T2	ZENER DIODE		•
D1550-51	1SS133-T2	SI.DIODE		*
D1552	1N4003-T2	SI.DIODE		
D1553	MA4068(N)C1-T2	ZENER DIODE		*
D1591	RD3.6ES(B1)-T2	ZENER DIODE		
D1592	1SS133-T2	SI.DIODE		*
D1593 D1701-02	1SS252-T2 1SS146-T2	SI.DIODE SI.DIODE		*
D1701-02	MA700-T2	SI.DIODE SI.DIODE		*
D1705-14	1SS133-T2	SI.DIODE		*
D1716	1SS146-T2	SI.DIODE		*
D1717	1SS133-T2	SI.DIODE		*
D1732	1SS133-T2	SI.DIODE		*
D1734	1SS133-T2	SI.DIODE		*
D1761 D1762	1SS146-T2	SI.DIODE		*
D1762	RD16ES(B3)-T2 1SS133-T2	ZENER DIODE SI.DIODE		
D1851-53	1SS133-T2	SI.DIODE		*
D1854-56	RD13JS(B)-T2	ZENER DIODE		
D1857	1SS133-T2	SI.DIODE		*
TRAN	SISTOR			
Q1001	2SC4502-T	SI.TRANSISTOR		*
Q1004 Q1201-03	DTC144ES-T	DIGI TRANSISTOR		*
Q1201	2PC1815(YG)-T 2PA1015(YG)-T	SI.TRANSISTOR SI.TRANSISTOR		*
Q1205	DTC144ES-T	DIGI TRANSISTOR		
Q1206	2PA1015(YG)-T	SI.TRANSISTOR		*
Q1305	DTC144ES-T	DIGI TRANSISTOR		*
Q1306	2PC1815(YG)-T	SI.TRANSISTOR		*
Q1307-08	DTA144ES-T	DIGI.TRANSISTOR		*
Q1401	DTC144ES-T	DIGI TRANSISTOR		*
Q1402-03 Q1461	2PA1015(YG)-T 2PC1815(YG)-T	SI.TRANSISTOR SI.TRANSISTOR		*
Q1462	2SD1408(OY)	SI.TRANSISTOR		*
Q1463	DTC144ES-T	DIGI TRANSISTOR		*
Q1501	2SC3669(OY)-T	SI.TRANSISTOR		*
Q1502	DTC144ES-T	DIGI TRANSISTOR		*
Q1503-04	2PA1015(YG)-T	SI.TRANSISTOR		*
△ Q1521 Q1541	8U508AFI	SI.TRANSISTOR		*
Q1541 Q1701	2SD1266(P) DTC144ES-T	SI.TRANSISTOR DIGI TRANSISTOR		*
Q1702-03	2PA1015(YG)-T	SI.TRANSISTOR		*
Q1761-62	2PC1815(YG)-T	SI.TRANSISTOR		*
Q1763-65	DTC144ES-T	DIGI TRANSISTOR		* Ear 9a
				For Se

**
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Email:- enquiries@mauritron.co.uk

Δ	Symbol No.	Part No.	Part Name	Description	Loca
	TRANSI				
	Q1851-52	2PC1815(YG)-T	SI.TRANSISTOR		
	Q1901	2PC1815(YG)-T	SI.TRANSISTOR		
	Q1902	2SA966(OY)-T	SI.TRANSISTOR		:
	I C				
	IC1201	TA8759BN	I.C(MONO~ANA)		:
	IC1441	TDA3654	I.C(MONO-ANA)		
	IC1461	TA8859P	I.C.		
	IC1701	M37204M8-A44SP	I.C.		
	IC1702	MN1280-Q	I.C(DIGI-MOS)		
	IC1703	TC4066BP	I.C(DIGI-MOS)		
	IC1704	CAT35C104HP	I.C(MEMORY-OTH)		
	IC1705	UPD6326C	I.C(DIGI-MOS)		
	IC1706	TA78MO5P	I.C.		
	IC1707	24C01A/P	I.C(EP-ROM)		
	OTHERS				
			PIF PWB ASSY VNR&RGB PWB ASSY	(SMX0F901A-U2) (SMX0N901A-U2)	
	DL1301	CE42038-001J1	DELAY LINE	(SMACHOOTA OZ)	1
	FR1466	ORZ0054-820M	FR	82 Ω 1/4W J	
_	FR1541	QRH017J-100M	FR	10 Ω 1W J	
	FR1542	QRH027J-1R8M	FR	1.8 Ω 2W J	
	FR1543	QRH027J-1ROM	FR	1 Ω 2W J	
	FR1544	QRH027J-1ROM	FR	1 Ω 2W J	
Λ	FR1545	ORH017J-1R0M	F R	1 Ω 1W J	
	FR1547	QRZ0054-220M	F R	22 Ω 1/4W J	
_	FR1560	ORZ0054-4R7M	FR	4.7 Ω 1/4W J	:
	FR1743	ORZ0054-120M	FR	12 Ω 1/4W J	:
_	K1501	CE41433-001	BEADS CORE		
	K1521	CE41169-002	PEAKING COIL		
	K1801	CE41433-001	BEADS CORE		
	S1401	QSL6A13-C01J2	LEVER SWITCH	SERVICE SW	
	S1441	OSL6A13-C01	LEVER SWITCH	V.CENTER SW	
	TU1001	CEEM330-A01-G	UHF TUNER		
	X1301	CE40749-001J1	CRYSTAL		
	X1302	CE40668-001	CRYSTAL		
	X1501	CSB503F30-T2	C RESONATOR		
	X1701	CE41887-001J1	CRYSTAL		1

POWER PW BOARD ASS'Y (SMX-2902A-U2)

4	∆ Symbol No.	Part No.	Part Name	Description	Local
_	VARIA R2032	BLE RESIS QVPA603-332AZ	TOR VR(B1 ADJ.)	3.3kΩ B	
	R E S I S R2002 R2003 R2005 R2006 R2007 R2009 R2010 R2011	T O R QRF104K-3R9 QRG039J-183 QRF104J-221 QRD123J-101SX QRM055K-R15 QRX019J-2R2S QRX019J-6R8 QRD123J-180SX	UNF R OM R UNF R C R MP R MF R MF R C R	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	•
	R2016 R2017 R2031 R2041 R2042 R2044-45 R2046 R2049	QRV141F-5602AY QRV141F-1503AY QRD123J-124SX QRG039J-153 QRG029J-102 QRG039J-181 QRX039J-R56A QRD123J-331SX	MF R MF R C R OM R OM R OM R OM R MF R C R	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	*
ß	R2051	QRZ0057-825	C R	8.2MΩ 1W J	*
	CAPAC 1 C2002 C2006 C2007-10 C2011 C2013 C2015 C2017 C2018-19	T O R QFZ9036-104M QFZ9036-473M QCZ9034-472A QEZ0167-227J8 QFZ0117-1501S QEHC1EM-477MZ QEM51VM-476M QFLC1HJ-393MZ	MF CAP. MF CAP. C CAP. E CAP. MPP CAP. E CAP. E CAP. M CAP.	0.1 μ FAC250V M 0.047 μ FAC250V M 4700 p FAC125V P 220 μ F 385V ± 20% 1500 p F 2000V ± 2.5% 470 μ F 25V M 47 μ F 35V M 0.039 μ F 50V J	* * * * *
	C2020 C2021 C2026 C2031-32 C2033 C2034 C2035 C2037	QFV71HJ-394MZ QFP31HG-102S QFLC1HJ-332MZ QEH52CM-107M QCZ0128-332A QCZ0122-122A QEHC1HM-475MZ QFLC1HJ-123MZ	TF CAP. PP CAP. M CAP. E CAP. C CAP. C CAP. E CAP. M CAP.	0.39 μ F 50V J 1000 p F 50V G 3300 p F 50V J 100 μ F 160V M 3300 p F 500V K 1200 p F 2000V K 4.7 μ F 50V M 0.012 μ F 50V J	*
\triangle	C2038 C2040 C2042 C2044 C2051 C2052 C2053 C2054	QEHB1EM-108M QEHB1VM-338M QEN61CM-106Z QCZ0128-332A QCZ9036-472M QCZ9036-472M QCZ9036-102M QCZ9036-102M	E CAP. E CAP. BP E CAP. C CAP. C CAP. C CAP. C CAP. C CAP.	1000 µ F 25V M 3300 µ F 35V M 10 µ F 16V M 3300 p F 500V K 4700 p FAC125V M 4700 p FAC125V M 1000 p FAC125V K	* * * * * * * * *
Δ	C2055	QCZ9036~102M	C CAP.	1000 p FAC125V K	*
⚠	TRANSF T2001	O R M E R CE42386-001J1	S.M.TRANSF		•
	C O I L L2001 L2031 L2033 L2034-35	CELC005-2R5 CJ30030-046 CELC002-470 CELC026-100	CHOKE COIL HEATER CHOKE CHOKE COIL CHOKE COIL	2.5 µ H 47 µ H 10 µ H	*
Δ	D I O D E D2001 D2002 D2003 D2006 D2031 D2032 D2033-34 D2036	D3SB60 BYD33M-T3 RD3.0F(B2)-T3 BYD33D-T3 BY229-600 RD6.2ES(B2)-T2 BYV28-200-20 BYD33M-T3	BRIDGE DIODE SI.DIODE ZENER DIODE SI.DIODE SI.DIODE ZENER DIODE SI.DIODE SI.DIODE		* * * * *

*
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⚠	Symbol No.	Part No.	Part Name	Description Loc	a l
	TRANSI	STOR			
	Q2001	SGSIF444	SI.TRANSISTOR		*
	Q2002	2PC1815(YG)-T	SI.TRANSISTOR		*
	Q2031-32	2PC1815(YG)-T	SI.TRANSISTOR		*
	Q2033	2SC2229(OY)-T	SI TRANSISTOR		*
_	I C				
	IC2001	TEA2261	I.C.		*
Δ	IC2002	CNY17F-C1	I.C(PH.COUPLER)		*
	OTHERS				
		CM46611-001-E	TRANSF.HOLDER		*
Δ	LF2001	CE41890-001J2	LINE FILTER		*
△	TH2001	CE41884-001J1	W-P.THERMISTOR		*

CRT SOCKET PW BOARD ASS'Y (SMX-3901A-U2)

Δ	Symbol No.	Part No.	Part Name	Description	Local
	V A R I A B R3107 R3108 R3109 R3113 R3114	LE RESIST QVPE805-501H QVPE805-501H QVPE805-501H QVPE805-301H QVPE805-301H	O R V R(G CUT OFF) V R(R CUT OFF) V R(B CUT OFF) V R(G DRIVE) V R(R DRIVE)	500 Ω B 500 Ω B 500 Ω B 300 Ω B 300 Ω B	
	R E S I S T R3116-21	O R QRG029J-153A	OM R	15kΩ 2W J	*
diendi	C A P A C I C3106 C3113	T O R QCZ0118-104M QFZ0097-223M	C CAP. MM CAP.	0.1μF 25V Z 0.022μF 1250V K	*
	C O I L L3101-03 L3104-06	CELP026-181ZJ2 CELP026-390ZJ2	PEAKING COIL PEAKING COIL	180 μ H 39 μ H	*
	D I O D E D3151	1SS133-T2	SI.DIODE		*
	T R A N S I Q3101-03 Q3104-06 Q3151 Q3152-53 Q3154	S T O R 2PC1815(YG)-T 2SC4544-C1 DTC144ES-T 2SK301(P)-T 2PA1015(YG)-T	SI.TRANSISTOR SI.TRANSISTOR DIGI TRANSISTOR F.E.T. SI.TRANSISTOR		*
Δ	OTHERS	CE41603-001J1	C R T SOCKET		*

AUX PW BOARD ASS'Y (SMX-6951A-U2)

Part Name	Description	Local
UNF R	5.6 Ω	*

TELETEXT AUX PW BOARD ASS'Y (SMX-7901A-U2)

△ Symbol No.	Part No.	Part Name	Description	Local
D I O D E D7001-03 .	1SS133-T2	SI.DIODE		*

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FRONT CONTROL PW BOARD ASS'Y (SMX-8902A-U2)

Δ	Symbol No.	Part No.	Part Name	Description	Local
	CAPACI C8002	T O R QCZ0118-104M	C CAP.	0.1μF 25V Z	*
	DIODE				
	D8001	GL3ED8	L E D 2(G+R)	POWER	
	D8002	SLR-34DU3F	L.E.D.	TIMER	*
	D8003	SLR-34MG3F	L.E.D.	STEREO/BILINGUAL	*
	D8004	SLR-34YY3F	L.E.D.(YLW)	S-INPUT SELECT	
	D8005	1SS133-T2	SI.DIODE		*
	TRANSI	STOR			
	Q8001	DTC144ES-T	DIGI TRANSISTOR		
	Q8002-03	DTA144ES-T	DIGI.TRANSISTOR		*
	Q8004-09	DTC144ES-T	DIGI TRANSISTOR		*
	I C				
	IC8001	GP1U721Q	IFR DETECT UNIT		
	OTHERS				
	S8001	QSP4H11-C03	PUSH SWITCH	POWER	

SIDE CONTROL PW BOARD ASS'Y (SMX-8951A-U2)

Local	Description	Part Name	Part No.	∆ Symbol No.
				COIL
*	5.6 µ H	PEAKING COIL	CELP017-5R6YJ4	L8051
*		LEAD CORE	CE41832-001	L8052
*	5.6 μ Η	PEAKING COIL	CELP017-5R6YJ4	L8053-55
*		LEAD CORE	CE41832-001	L8056
				DIODE
*		SI.DIODE	1SS133-T2	D8051-56
			3	OTHERS
*		MINI CONNECTOR	OMD2804-001	J8051
		JACK	CEMN011-001	J8052
		JACK	CEMN011-002	J8053
		JACK	CEMN011-003	J8054
		HEADPHONE JACK	AX49607-004	J8055
	EXT/S-IN	PUSH SWITCH	CESP001-001	S8051
	PR DOWN/UP	PUSH SWITCH	CESP001-001	S8052
	VOL ±	PUSH SWITCH	CESP001-001	\$8053

LINE FILTER PW BOARD ASS'Y (SMX-9901A-U2)

Local	Description	Part Name	Part No.	⚠ Symbol No.
*	0.47 μ FAC250V M	MM CAP.	T O R QFZ9035-474M	CAPACI A C9902
				OTHERS
		FUSE CLIP	A44594-002	
*	T3.15AH	FUSE	OMF51D2-3R15J1	↑ F9901
		LINE FILTER	CE42209-00A	⚠ LF9901
	MAIN POWER	PUSH SWITCH	QSP2J21-C02	∆ S9901

AUDIO PW BOARD ASS'Y (SMX0A902A-U2)

△ Symbol No.	Part No.	Part Name	Descripti	on		Local
VARIA R137	BLE RESIS QVPE611-502HZ	T O R V R(PHASE)	5kΩ B			
RESIS R911	T O R QRG019J-820S	OM R	82 Ω	1W	J	*
C A P A C C137 C138 C140 C309	I T O R QFLC1HJ-822MZ QFLC1HJ-104MZ QFLC1HJ-223MZ QEM61EK-106MZ	M CAP. M CAP. M CAP. E CAP.	8200 p F 0.1 μ F 0.022 μ F 10 μ F	50V 50V 50V 25V	J J J K	* * *
C 407 C 409 C 421 C 454	QFLC1HJ-103MZ QCT25CH-680Z QFLC1HJ-563MZ QFV71HJ-473MZ	M CAP. C CAP. M CAP. TF CAP.	0.01 μ F 68 p F 0.056 μ F 0.047 μ F	50V 50V 50V 50V	J J J	* * *
C473-74 C475-76 C477-78 C479-80 C482-83 C604 C607	QFLC1HJ-472MZ QFLC1HJ-272MZ QEN61CM-106Z QFLC1HJ-333MZ QEN61HM-105Z QFV71HJ-823MZ QFLC1HJ-333MZ	M CAP. M CAP. BP E CAP. M CAP. BP E CAP. TF CAP. M CAP.	4700 p F 2700 p F 10 μ F 0.033 μ F 1 μ F 0.082 μ F 0.033 μ F	50V 50V 16V 50V 50V 50V	J M J M J	* * * * * *
C608-09 C610 C612-13 C653-54 C655 C656-61 C662-64 C703-04	QFLC1HJ-182MZ QFV71HJ-104MZ QEN61HM-225Z QFLC1HJ-272MZ QEN61HM-225Z QFV71HJ-104MZ QEN61HM-225Z QFV71HJ-683MZ	M CAP. TF CAP. BP E CAP. M CAP. BP E CAP. TF CAP. BP E CAP. TF CAP.	1800 p F 0.1 µ F 2.2 µ F 2700 p F 2.2 µ F 0.1 µ F 2.2 µ F 0.068 µ F	50V 50V 50V 50V 50V 50V 50V	J M J M J M	* * * * * * * * * * * * * * * * * * *
C705-06 C707-08 C709-10 C755-56 C758 C912	QFV71HJ-274MZ QFLC1HJ-152MZ QFLC1HJ-223MZ QFV71HJ-124MZ QEHB1CM-228M QFLC1HJ-103MZ	TF CAP. M CAP. TF CAP. E CAP. M CAP.	0.27 μ F 1500 p F 0.022 μ F 0.12 μ F 2200 μ F 0.01 μ F	50V 50V 50V 50V 16V 50V	J J M J	* * * * *
TRANS	FORMER CELT039-303J1	CW TRANSF				*
C O I L L102 L401 L402 L451-52 L951-52 L953	CELP026-1R2ZJ2 CELP027-100Z CELP026-5R6 CELP026-100ZJ2 CELC026-100 CE41832-001	PEAKING COIL PEAKING COIL PEAKING COIL PEAKING COIL CHOKE COIL LEAD CORE	1.2 μ H 10 μ H 5.6 μ H 10 μ H 10 μ H			* * * * *
D I O D E D301-02 D651 D701 D702-05 D731-34 D751-52	1SS133-T2 RD9.1ES(B2)-T2 RD6.2ES(B2)-T2 1SS133-T2 1SS133-T2 RD33ES(B1)-T2	SI.DIODE ZENER DIODE ZENER DIODE SI.DIODE SI.DIODE ZENER DIODE				* *
T R A N S Q102 Q105 Q301 Q302-03 Q305 Q401-04 Q601 Q602	I S T O R 2SC1906-T 2PA1015(YG)-T 2PA1015(YG)-T DTC323TS-T 2PC1815(YG)-T 2PC1815(YG)-T 2PC1815(YG)-T 2PA1015(YG)-T	SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR DIGI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR				* * * *For Service Manuals Contact MAURITRON TECHNICAL SERVICES * 8 Cherry Tree Rd, Chinnor * Oxon OX9 4QY Tel:- 01844-351694 Fax:- 01844-352554
Q603 Q731 Q732-33	2PC1815(YG)-T 2PA1015(YG)-T 2PC1815(YG)-T	SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR		- 1 W		* Email:- enquiries@mauritron.co.uk * *

Æ	Symbol No.	Part No.	Part Name	Description	Local
_	I C				
	IC101	TDA9800	I.C.		*
	IC302	TK15021Z	I.C.		*
	IC401	CF70088	I.C.		*
	IC402	SM5840HP	I.C.		
	IC403	TDA1312	I.C.		*
	IC404	LM324N	I.C.		*
	IC405	MN1280-Q	I.C(DIGI-MOS)		*
	IC601	UPC1891ACY	I.C(MONO-ANA)		
	10602	TDA7314J	I.C.		*
	IC701-02	BA15218N	I.C.(M)		*
	IC703	TA8200AH	I.C(MONO-ANA)		*
	IC911	L7805ABV	I.C(MONO-ANA)		*
	OTHERS	3			
	CF103-04	A75111-C-T2	CERAMIC FILTER		*
	CF152	TPS6.0MD	C TRAP		
Δ	CP901	ICP-N15-Y	I.C.PROTECT		*
$\overline{\Lambda}$	FR335	QRZ0054-470M	FR	47 Ω 1/4W	J *
$\overline{\mathbb{A}}$	FR460	QRZ0054-470M	FR	47 Ω 1/4W	J *
Δ	FR615	QRZ0054-470M	FR	47 Ω 1/4W	J *
Δ	FR653	ORZ0054-470M	FR	47 Ω 1/4W	J *
⚠	FR719	QRZ0054-470M	F R	$47 \Omega 1/4W$	J *
	J901	CEMT012-001	PUSH TERMINAL		*
	S901	OSS4C22-C04	SLIDE SWITCH	SPEAKER SELECT	*
	SF101	CE41031-301	SAW FILTER		*
	X401	CE42299-001	CRYSTAL		*

PIF PW BOARD ASS'Y (SMX0F901A-U2)

\triangle Symbol No.	Part No.	Part Name	Descriptio	n		Local
VARIAE R137	BLE RESIS' QVPA603-102AZ	TOR VR(VLEVEL)	1kΩ B			
C A P A C 1 C111-12 C113-14 C117 C118 C121 C126-27 C129 C135	T O R QCT25CH-101Z QCT25CH-181Z QCT25CH-4R0Z QCT25CH-5R0Z QEE61VK-224BZ QCT25CH-101Z QCT25CH-680AZ QCT25CH-221AZ QFV71HJ-124MZ QFV71HJ-683MZ	C CAP. C CAP. C CAP. C CAP. TAN.CAP. C CAP. C CAP. C CAP. TAP. C CAP. TF CAP.	100 p F 180 p F 4 p F 5 p F 0.22 µ F 100 p F 68 p F 220 p F 0.12 µ F 0.068 µ F	50V 50V 50V 50V 50V 50V 50V 50V 50V	J J J K J J J	* * * * * * * * * * * * * * * * * * * *
T R A N S F T101 T102 T103 T104 T105	F O R M E R CELT009-312J1 CELT001-304J1 CE40123-600J1 CE41597-401 CELT022-002J1	PIX I.F.TRANSF. CW TRANSFORMER AFC TRANSFORMER TRAP COIL TRAP TRANSF.				* *
C O I L L101 L104 L105 L106	CELP041-R56 CELP042-2R7 CELP026-100Z CELP026-100ZJ2	PEAKING COIL PEAKING COIL PEAKING COIL PEAKING COIL	0.56 µ H 2.7 µ H 10 µ H 10 µ H			* *
D I O D E D101 D701	MA4100(M)-T2 1SS133-T2	ZENER DIODE SI.DIODE				*
T R A N S I Q101-04 Q105 Q106 Q107 Q108 Q109 Q701	S T O R 2SC4502-T 2PC1815(YG)-T 2PA1015(YG)-T 2PC1815(YG)-T 2SC1959(Y)-T 2PA1015(YG)-T 2PC1815(YG)-T	SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR				* * *
I C IC101 IC701	M51496P LA7210	I.C(MONO-ANA) I.C(MONO-ANA)				*
OTHERS CF101 SF101 X701	A76138 CE40454-303 CSB500F9	CERAMIC TRAP SAW FILTER CER.RESONATOR				**

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VNR & RGB SWITCH PW BOARD ASS'Y (SMX0N901A-U2)

Symbol No.	Part No.	Part Name	Description			Local
CAPACI	ITOR					
C102	OFLC1HJ-103MZ	M CAP.	0.01 μ F	50V	J	*
C104	OFLC1HJ-103MZ	M CAP.	0.01 μ F	50V	J	*
C205	OFLC1HJ-103MZ	M CAP.	0.01 μ F	50V	J	*
C206	OFV71HJ-104MZ	TF CAP.	0.1 μ F	50V	J	
C209	OFV71HJ-104MZ	TF CAP.	0.1 µ F	50V	J	•
C212	QFLC1HJ-103MZ	M CAP.	0.01 μ F	50V	J	•
COIL						
L101	CELP026-330ZJ2	PEAKING COIL	33 μ H			
DIODE						
D101	MA4062(M)-T2	ZENER DIODE				
D102	1SS133-T2	SI.DIODE				
D103	MA4062(M)-T2	ZENER DIODE				
D104	1SS133-T2	SI.DIODE				
D105	MA4062(M)-T2	ZENER DIODE				
D106-07	1SS133-T2	SI.DIODE				!
D108	RD18ES(B3)-T2	ZENER DIODE				
D109	RD3.6ES(B1)-T2	ZENER DIODE				
TRANS						
Q101-04	DTC144ES-T	DIGI TRANSISTOR				
Q105	2PC1815(YG)-T	SI.TRANSISTOR				
Q106	DTC144ES-T	DIGI TRANSISTOR				
Q107-10	2PA1015(YG)-T	SI.TRANSISTOR				
Q111	2PC1815(YG)-T	SI.TRANSISTOR				
Q113-15	2PC1815(YG)-T	SI.TRANSISTOR				
Q201-03	2PC1815(YG)-T	SI.TRANSISTOR				
Q204	2PA1015(YG)-T	SI.TRANSISTOR				
Q205	2PC1815(YG)-T	SI.TRANSISTOR				
Q206-07	DTC144ES-T	DIGI TRANSISTOR				
Q208	2PC1815(YG)-T	SI.TRANSISTOR				
I C						
IC101	TC4053BP	I.C(DIGI-MOS)				
IC102	AN5860	I.C.(M)				
IC201	M51494L	I.C(MONO-ANA)				

AV SELECTOR PW BOARD ASS'Y (SMX0S901A(U))

△ Symbol No	. Part No.	Part Name	Description	Local	
V A R I A R507 R773	BLE RESIS QVPE611-101HZ QVPC611-203HZ	T O R V R(LEVEL) V R(VP WIDTH)	100 Ω B 20k Ω B		-
R E S I S R112 R114 R153 R204 R205 R257	T O R QRG019J-101S QRD123J-271SX QRD123J-221SX QRG019J-101S QRD123J-271SX QRD123J-221SX	OM R C R C R OM R C R C R	$\begin{array}{cccc} 270 & \Omega & 1/2 \text{W} \\ 220 & \Omega & 1/2 \text{W} \\ 100 & \Omega & 1 \text{W} \\ 270 & \Omega & 1/2 \text{W} \end{array}$	J J J J	
C A P A C C103 C109 C122 C125 C152 C159-62 C171-73 C204	QEN61CM-107Z QEN61CM-476MZ NCF21EZ-104AY QFLC1HJ-103MZ NCF21EZ-104AY NCB21HK-472AY NCT03CH-102AY QFLC1HJ-103MZ	BP E CAP. E CAP. CHIP C CAP. M CAP. CHIP C CAP. CHIP CAP. CHIP CAP. CHIP CAP. M CAP.	47 μ F 16V 0.1 μ F 25V 0.01 μ F 50V 0.1 μ F 25V 4700 p F 50V 1000 p F 1600V	M M Z J Z K H J	
C255-58 C302 C403 C407 C409 C410 C502 C509	NCB21HK-472AY QFLC1HJ-103MZ QFLC1HJ-103MZ NCF21EZ-104AY QEN51AM-227 NCT03CH-120AY NCF21EZ-104AY QEN61CM-336Z	CHIP CAP. M CAP. M CAP. CHIP C CAF. BP E CAP. CHIP CAP. CHIP C CAP. BP E CAP.	0.01 µ F 50V 0.01 µ F 50V 0.1 µ F 25V 220 µ F 10V 12 p F 1600V 0.1 µ F 25V	K J Z M H Z M	
C510 C511 C513 C515 C521-22 C524 C525 C527	QFLC1HJ-103MZ QEN61CM-336Z NCT03CH-330AY NCF21EZ-104AY QFLC1HJ-103MZ NCF21EZ-104AY QFLC1HJ-103MZ QFLC1HJ-103MZ	M CAP. BP E CAP. CHIP CAP. CHIP C CAP. M CAP. CHIP C CAP. M CAP. M CAP. M CAP.	33 µ F 16V 33 p F 1600V 30.1 µ F 25V 30.01 µ F 50V 30.1 µ F 50V 30.01 µ F 50V 30.01 µ F 50V 3000 300 300 300 300 300 300 300 300	J M H Z J J J	
C703 C705 C707 C708 C711 C713-14 C716 C718	NCF21EZ-104AY NCF21EZ-104AY NCF21EZ-104AY QFLC1HJ-153MZ NCF21EZ-104AY NCF21EZ-104AY QFV71HJ-474MZ QETCOJM-227Z	CHIP C CAP. CHIP C CAP. CHIP C CAP. M CAP. CHIP C CAP. CHIP C CAP. TF CAP. E CAP.	0.1 μ F 25V 0.1 μ F 25V 0.015 μ F 50V 0.1 μ F 25V 0.1 μ F 25V 0.47 μ F 50V	Z Z Z Z Z Z J	
C719 C752 C753 C756 C758 C759 C760-61 C762	QFLC1HJ-103MZ NCF21EZ-104AY QCT25CH-470Z NCT03CH-102AY NCT03CH-100AY QFP31HJ-153SZ QFLC1HJ-103MZ QCT25CH-6R0Z	M CAP. CHIP C CAP. C CAP. CHIP CAP. CHIP CAP. PP CAP. M CAP. C CAP.	0.01 μF 50V 0.1 μF 25V 47 μF 50V 1000 μF 1600V 10 μF 1600V 10 μF 50V 0.015 μF 50V 0.01 μ	J Z J H H J J	
C765 C767	NCF21EZ-104AY NCF21EZ-104AY	CHIP C CAP. CHIP C CAP.	•	Z Z	
C O I L L151 L152-55 L251 L252-55 L501-02 L701-04 L751 L752	CE41832-001 CELP017-5R6Y CE41832-001 CELP017-5R6Y CELP026-101Z CELP026-101Z CELP026-101Z CELP027-220Z	LEAD CORE PEAKING COIL LEAD CORE PEAKING COIL PEAKING COIL PEAKING COIL PEAKING COIL PEAKING COIL PEAKING COIL	5.6 μ H 5.6 μ H 100 μ H 100 μ H 100 μ H 22 μ H		For Service Manuals Contact MAURITRON TECHNICAL SERVICES 8 Cherry Tree Rd, Chinnor Oxon OX9 4QY Tel:- 01844-351694 Fax:- 01844-352554 Email:- enquiries@mauritron.co.uk
L/33	CEEF 02 / - 1002	LUKING CO.L	10 μ Η		

⚠	Symbol No.	Part No.	Part Name	Descripti	on	Local
	D I O D E D001-02 D101-02 D121-24 D151-54 D171-72 D173 D201-02 D251-54	1SS133-T2 MTZJ13(B)-T2 MTZJ13(B)-T2 MTZJ13(B)-T2 MTZJ13(B)-T2 1SS133-T2 MTZJ13(B)-T2 MTZJ13(B)-T2	SI.DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE SI.DIODE ZENER DIODE ZENER DIODE ZENER DIODE			
	D255-56 D301-02 D353-54 D401-03 D405-06 D701	1SS133-T2 MTZJ13(B)-T2 MTZJ13(B)-T2 1SS133-T2 MTZJ13(B)-T2 1SS133-T2	SI.DIODE ZENER DIODE ZENER DIODE SI.DIODE ZENER DIODE SI.DIODE			
	T R A N S I Q001-02 Q006 Q101-02 Q103 Q104 Q121 Q122 Q123-24	S T O R DTC144EK-W DTC144EK-W 2SA1162(YG)-W 2SC2712(YG)-W 2SC1815(YG)-T 2SC2712(YG)-W 2SA1162(YG)-W 2SC2712(YG)-W	DIGI TRANSISTOR DIGI TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR			
	Q125 Q151-52 Q201 Q202 Q251-54 Q255 Q401 Q402	2SA1162(YG)-W 2SC2712(YG)-W 2SA1162(YG)-W 2SC1815(YG)-T 2SC2712(YG)-W 2SA1162(YG)-W DTC144EK-W 2SC2712(YG)-W	SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR DIGI TRANSISTOR SI.TRANSISTOR			
	Q403 Q501-04 Q505 Q506-07 Q602 Q701-02 Q751-54	2SA1162(YG)-W 2SC2712(YG)-W 2SA1162(YG)-W 2SC2712(YG)-W 2SC2712(YG)-W 2SA1162(YG)-W 2SC2712(YG)-W	SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR			
	I C IC171 IC201 IC401 IC402 IC501-02 IC701 IC702 IC751	NJM2901N TC4066BF-W MC13547SP AN78L09 LA7016 MC141625AFU AN7805 NJM2240M-W	I.C. I.C(DIGI-MOS) I.C(MONO-ANA) I.C. I.C. I.C. I.C(DIGI-OTHER) I.C. I.C.			
	IC752	TC4538BP	I.C(DIGI-MOS)			
	OTHERS DL501-02 DL503 FR414 FR711 J001-02	CE42330-001 CE42382-001 QRZ0054-100M QRZ0054-120M CEMJ001-001	L P F L P F F R F R 21 PIN SOCKET	10 Ω 12 Ω	1/4W 1/4W	J J

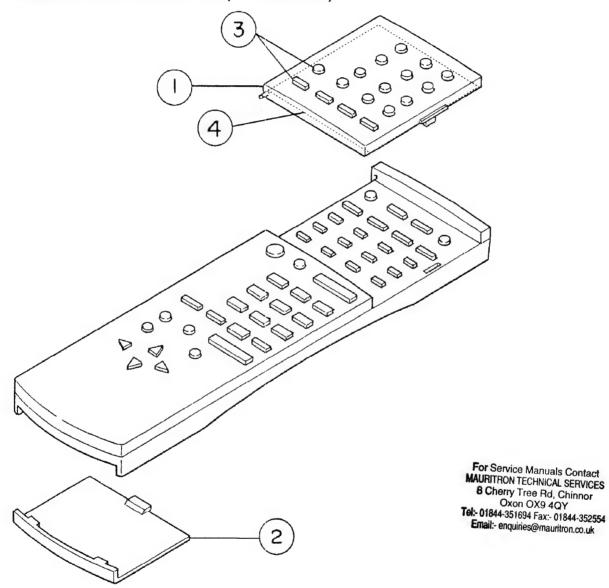
MODULE PW BOARD PARTS LIST

The following module pw boards are supplied as assemblies.

The component parts only the module pw boards are available only when the parts are listed in the "MODULE PRINTED WIRING BOARD PARTS LIST".

TELETEXT MODULE (SMX-T901A(U))

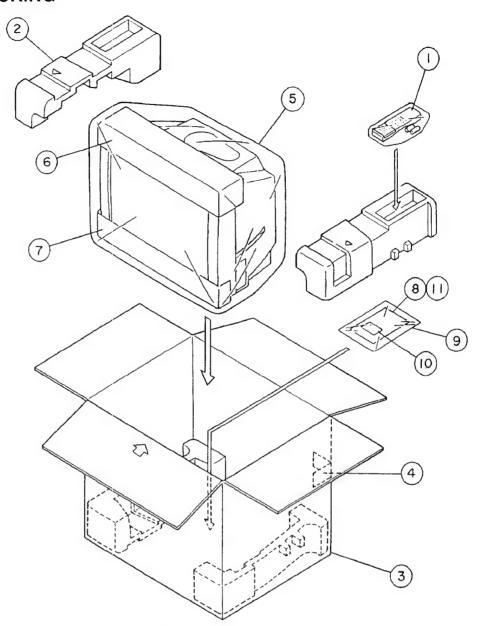
REMOTE CONTROL UNIT (RM-C873-E)



REMOTE CONTROL UNIT PARTS LIST

Local	Description	Part Name	Part No.	A Ref.No.
*		FRONT COVER	103RRC-028-02UR	1
*		BATTERY COVER	103RRC-027-01UR	2
*		RUBBER SHEET	421RRC-036-01UR	3
*		BASE COVER	703RRC-020-01UR	4

PACKING



PACKING PARTS LIST

Local	Description	Part Name	Part No.	∴ Ref.No.
+		RC HAND PIECE	RM-C873-E	1
*	(AV-25S1EK)	CUSHION ASSY	CP11228-A0A-E	2
*	(AV-28S1EK)	CUSHION ASSY	CP11229-00A-E	2
*	(AV-25S1EK)	PACKING CASE	AEM1002-017-E	3
	(AV-28S1EK)	PACKING CASE	CP10891-A27	3
*	(AV-25S1EK)	EURO LABEL	AEM1029-003-E	4
*	(AV-28S1EK)	EURO LABEL	AEM1029-004-E	4
*	(AV-25S1EK)	SET COVER	AEM1004-003-E	5
	(AV-28S1EK)	SET COVER	AEM1004-004-E	5
*	,	CUSHION SHEET	CP40193-009-E	6
*		CUSHION SHEET	CP40193-010-E	7
*		INST BOOK	258SGS1EK-IBAE	8
*		DOCU BAG	AEM3021-001-E	9
*		ADDRESS CARD	BT-20066A-E	10
*		WARRANTY CARD	BT-20060-E	11

AV-25S1FK / AV-28S1FK STANDARD CIRCUIT DIAGRAM

■NOTE ON USING CIRCUIT DIAGRAMS

1.SAFETY

The components identified by the Asymbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM **VALUES**

The voltage and waveform values have been measured under the following conditions.

and variable resistor

:PAL Colour bar signal (1)Input signal

(2)Setting positions

of each knob/button

when shipped

(3)Internal resistance of tester

:DC 20kΩ/V

(4)Oscilloscope sweeping time

⇒20µS/div :H

:٧

⇒5mS/div

:Others => Sweeping time is

:Original setting position

specified

(5) Voltage values

:All DC voltage values

* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATION OF PARTS SYMBOL[EXAMPLE]

•In the PW board :R1209-R209

4.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

Resistance value

No unit $:[\Omega]$ K :[KΩ] $:[M\Omega]$ M •Rated allowable power

No indication :1/6[W] :As specified Others

Type

No indication : Carbon resistor

OMR :Oxide metal film resistor MFR :Metal film resistor MPR :Metal plate resistor :Uninflammable resistor UNFR

:Fusible resistor FR

* Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2)Capacitors

Capacitance value

1or higher :[pF] less than 1 Withstand voltage

No indication :DC50[V]

Others :DC withstand voltage[V] AC indicated :AC withstand voltage[V]

* Electrolytic Capacitors

47/50[Example]:Capacitance value[μF]/withstand voltage[V]

Type

No indication: Ceramic capacitor

MY :Mylar capacitor

MM :Metalized mylar capacitor PP :Polypropylene capacitor

MPP :Metalized polypropylene capacitor

MF :Metalized film capacitor TF :Thin film capacitor

BP :Bipolar electrolytic capacitor

TAN :Tantalum capacitor

(3)Coils

No unit :[µH] Others :As specified

(4)Power Supply

:B1(146V) .B2(12V) :9V ____:5V

* Respective voltage values are indicated.

(5)Test Point

: Test point

: Only test point display

(6)Connecting method

: Connector

: Wrapping or soldering : Receptacle

(7) Ground symbol

: LIVE side ground : NEUTRAL side ground : EARTH ground : DIGITAL ground

5.NOTE FOR REPAIRING SERVICE

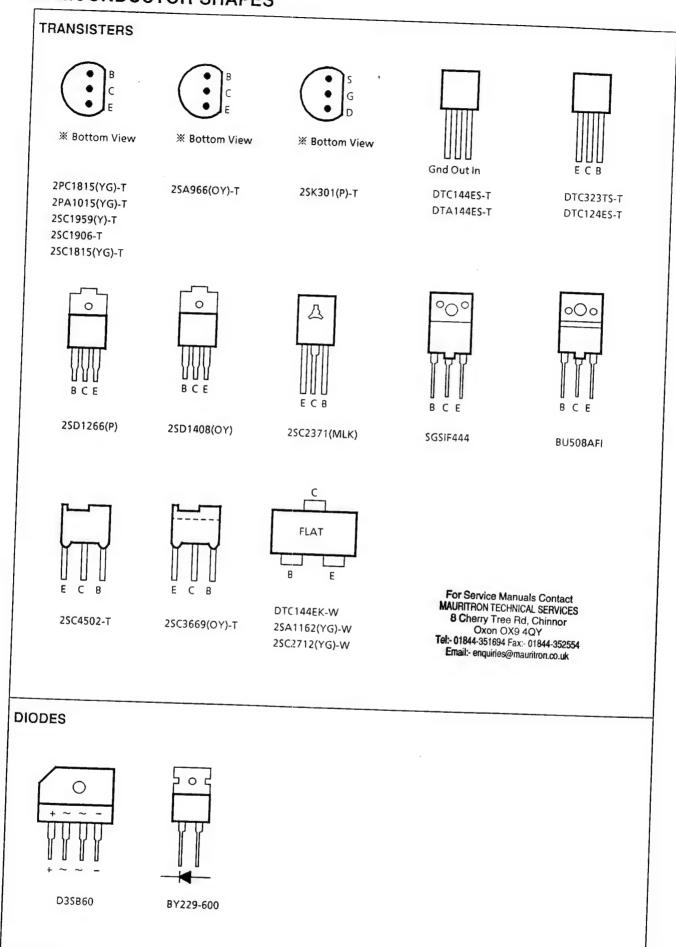
The power supply circuit of this model has different ground potentials. The different potentials are shown by LIVE (primary) \perp and the NEUTRAL (secondary) on the circuit diagrams. Do not touch the LIVE GND or the LIVE GND and the NEUTRAL GND simultaneously. Failure to observe this will result in electric shock. Check that the power cord is removed from the wall socket when removing the chassis from the case.

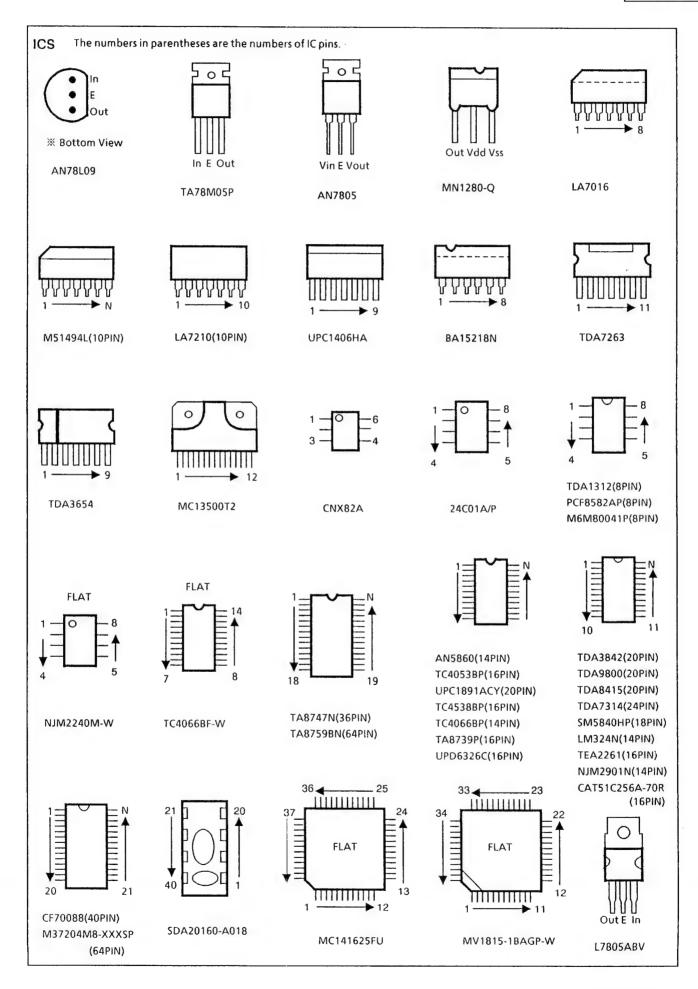
Be sure never to short between the LIVE GND and the NEUTRAL GND and never measure with measuring instrument (oscilloscope, etc.) connected between the LIVE GND and the NEUTRAL GND at the same time.

Failure to observe this will result in component damage.

♦ Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

SEMICONDUCTOR SHAPES





MAIN PARTS LOCATION AND ALIGNMENTS LOCATION

See the table below for the functions of the VR,trimmer capacitor,transformer,etc.,on each PWB.

A: PIF PWB ASS'Y

R137 Video detection output level

B: AV SELECTOR PWB ASS'Y

R773 Vertical pules width VR R507 Comb filter input level VR

C: MAIN PWB ASS'Y

R012 Noise (RF AGC) VR

R207 Sub CONTRAST VR

R216 Sub BRIGHT VR

R305 Sub TINT VR

R309 DL GAIN VR

R504 H.CENTER VR

T301 DL PHASE transformar

S441 V. CENTER SW

D: POWER PWB ASS'Y

R032 B1 voltage adjustment VR

D: LINE FILTER PWB ASS'Y

E: VNR & RGB SW PWB ASS'Y

F: TELETEXT MODULE

G: SIDE CONTROL PWB ASS'Y

H: FRONT CONTROL PWB ASS'Y

I: CRT SOCKET PWB ASS'Y

R107 Green cut-off VR

R108 Red cut-off VR

R109 Blue cut-off VR

R113 Green drive VR

R114 Red drive VR

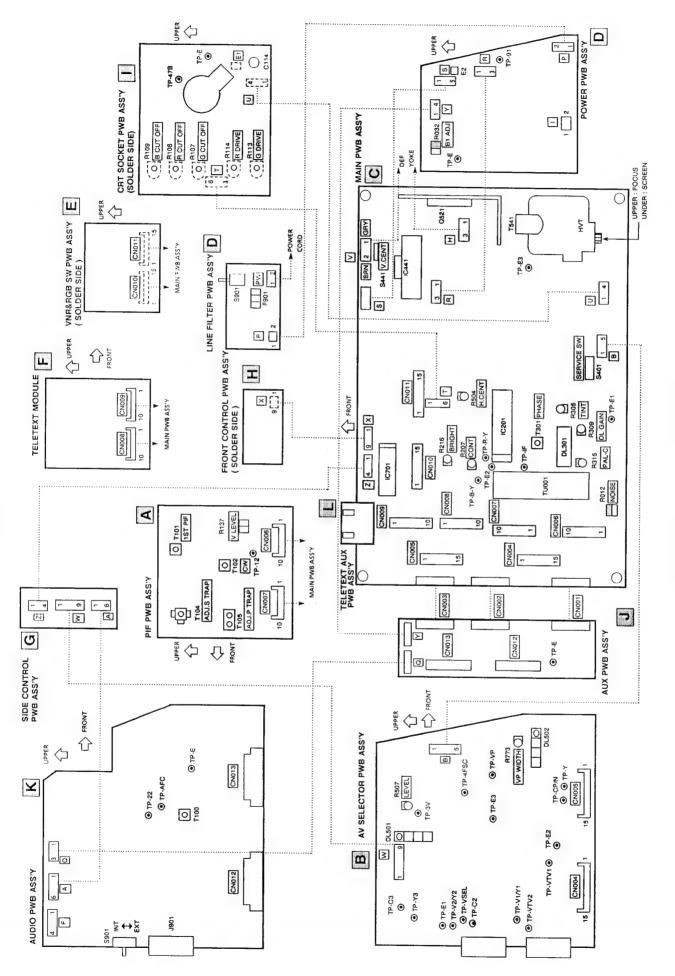
J: AUX PWB ASS'Y

K: AUDIO PWB ASS'Y

L: TELETEXT AUX PWB ASS'Y

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AV-28S1EK

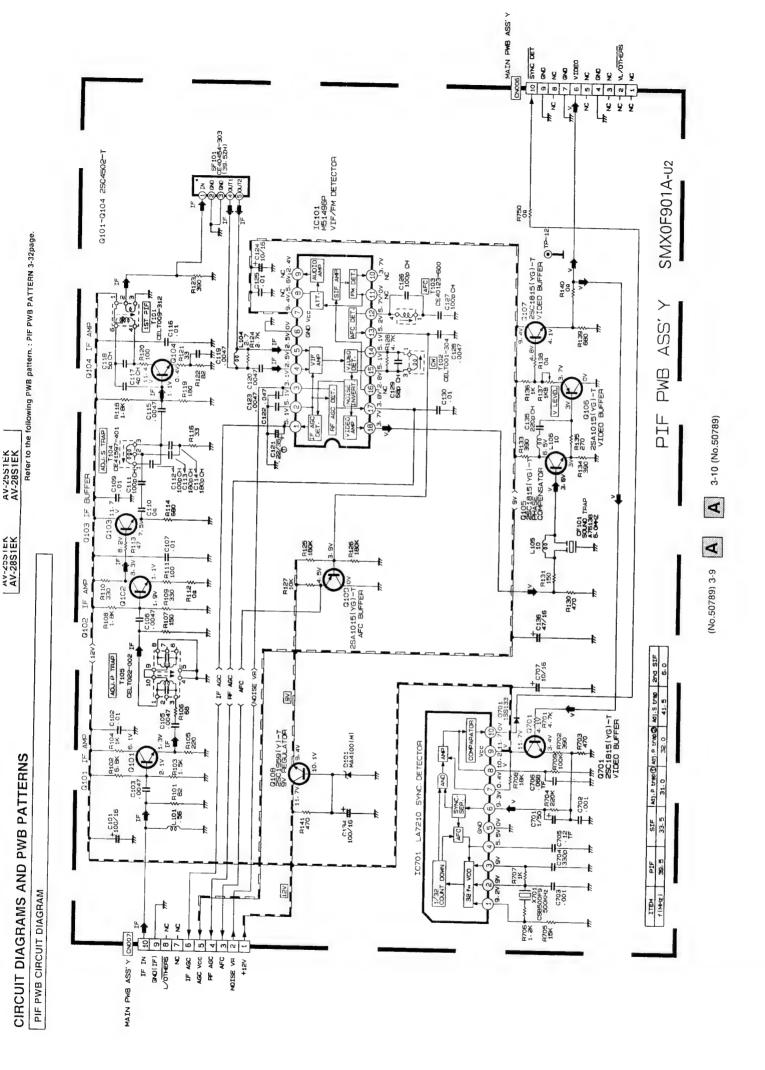
AV-28S1EK

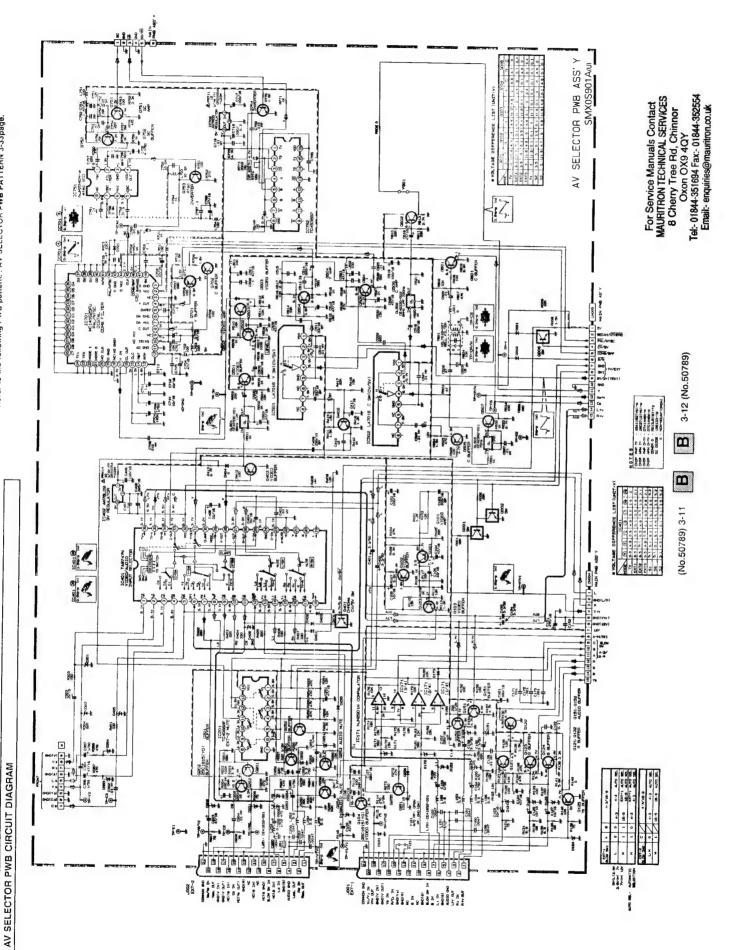
(No.50789) 3-5

AV-28S1EK

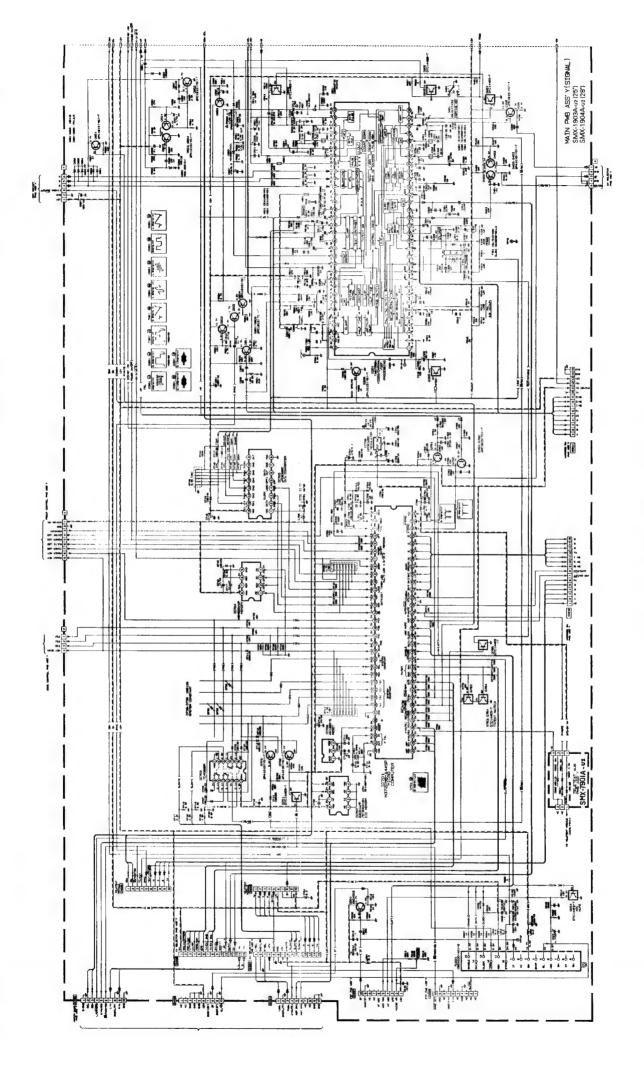
AV-28S1EK

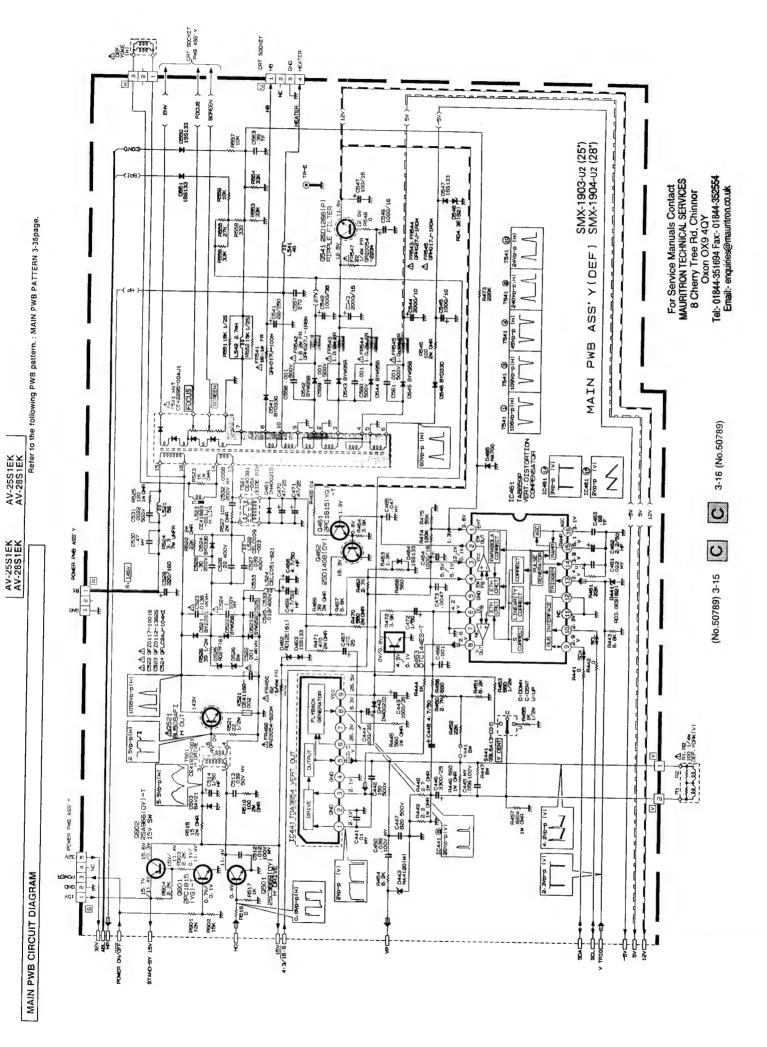
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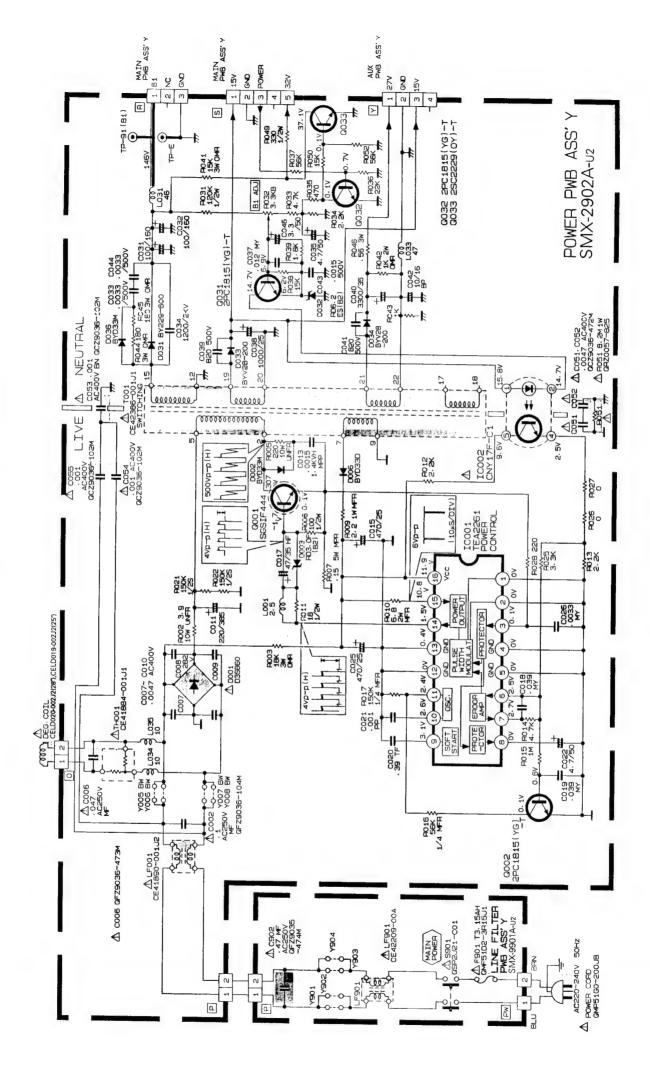


MAIN PWB, TELETEXT AUX PWB CIRCUIT DIAGRAMS





POWER PWB, LINE FILTER PWB CIRCUIT DIAGRAMS



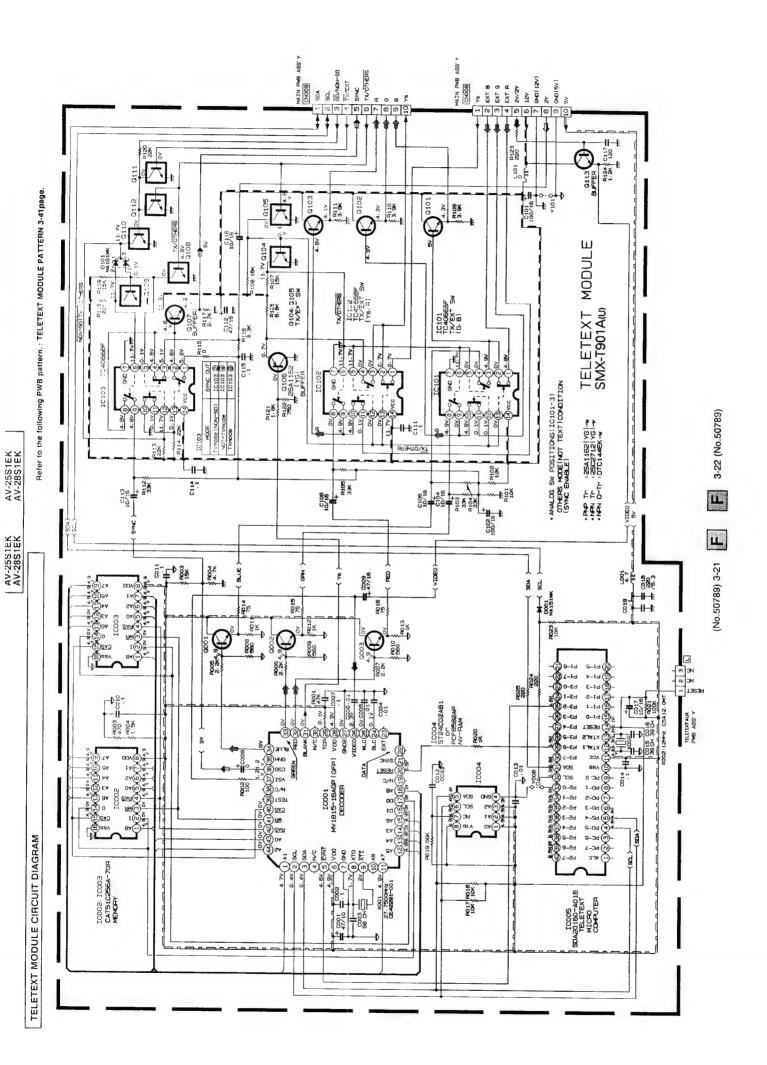
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AV-25S1EK AV-28S1EK AV-25S1EK AV-28S1EK

VNR & RGB SW PWB CIRCUIT DIAGRAM

Refer to the following PWB pattern.: VNR & RGB SW PWB PATTERN 3-40page.

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 MATC
 PRESENTE
 47.0
 On 10.0
 On 6104-6104 6105 070144ES-T COLOUR SYSTEM SW 0201-0203 2PC1815(Yg)-T BLFF 0202 2PC1815(YG)-T Y AM A107 H103 D104 A105 88 3-20 (No.50789) IC101 A.S.C. INPUT CUTTOTION HIGH (1 3 (3) LOW (2 (9) (3) 47X STD-67 5V 15 E I Ш EVOLTAGE DIFFRENCE LIST(UNIT:V) Ш 0107-0110-0112 2PA1015(YG)-T BUFFER (No.50789) 3-19 Š¥ 8 × 8 #53.50 (a) IC102 ANSBEO RGB SW & CLAMP Z.everaliti VNR&RGB PWB ASS'Y 58133 (Ys Puse) SMX0N901A-u2



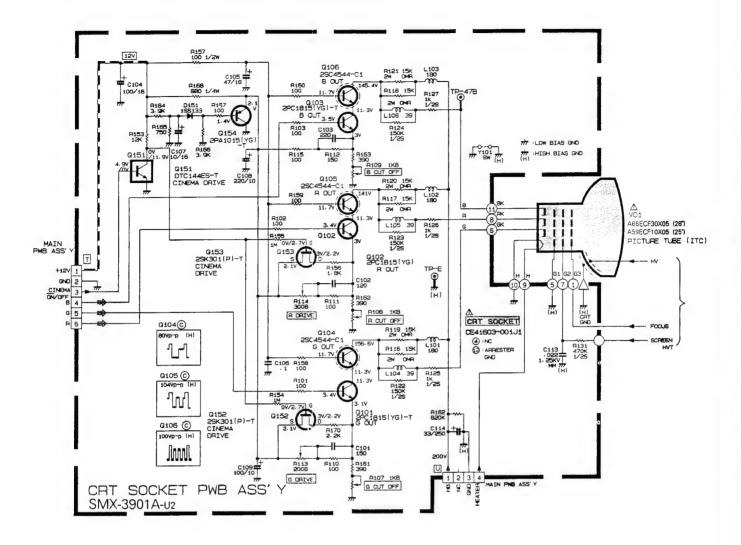
H 3-24 (No.50789)

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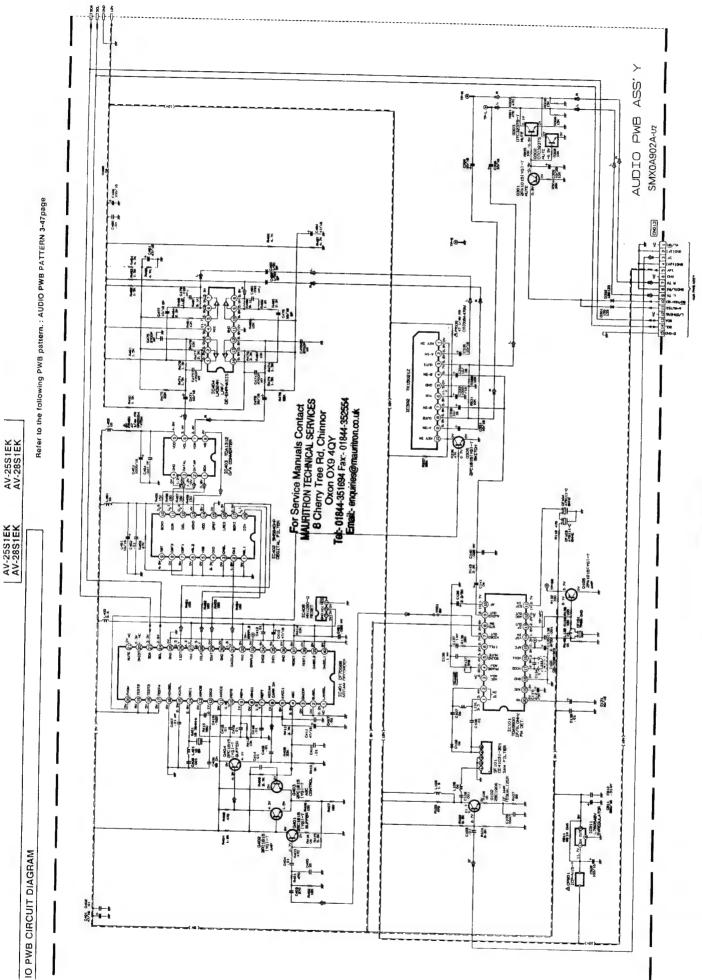
(No.50789) 3-23

CRT SOCKET PWB CIRCUIT DIAGRAM

Refer to the following PWB pattern.: CRT SOCKET PWB PATTERN 3-45page.



SIDE CONTROL PWB ASS Y SMX-6951A-uz Refer to the following PWB pattern.: AUDIO PWB PATTERN 3-47page, AUX PWB PATTERN 3-46page. 8- 3- 6 3-28 (No.50789) AV-25S1EK AV-28S1EK コマ コス AV-25S1EK (No.50789) 3-27 AUX PWB ASS' Y SMX-6951A-u2 DIPPERENT VOLTAG Pecalisting Monaural Producesta SURFOLD OF LIVE OFFEE AUDIO PWB, AUX PWB CIRCUIT DIAGRAMS AUDIO PWB ASS'Y SMX0A902A-u2

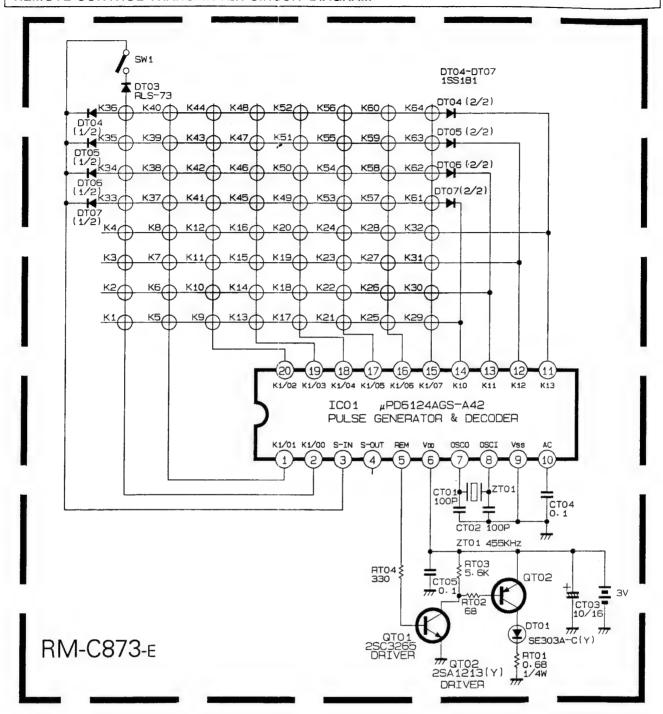


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REMOTE CONTROL TRANSMITTER CIRCUIT DIAGRAM

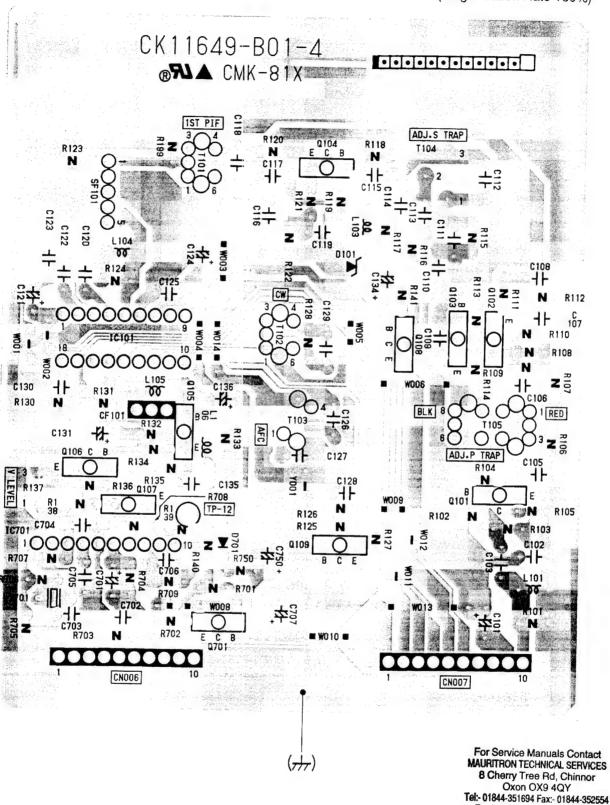


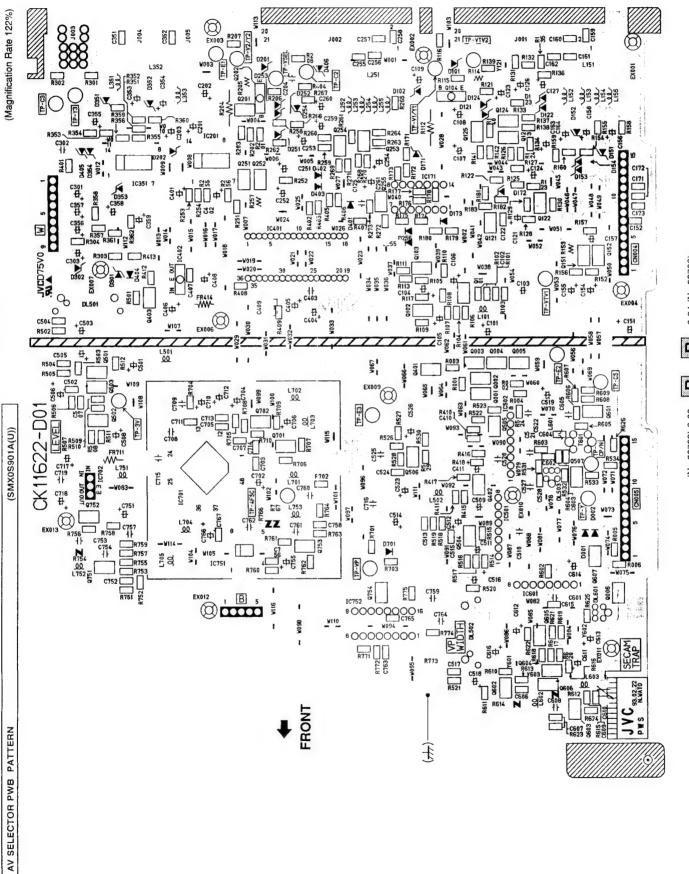
		,					
K. NO	FUNCTION	K. NO	FUNCTION	K, NO	FUNCTION	K, NO	FUNCTION
K 1	DISP CANCEL	K 17	MUTE	K 33		K 49	6
K 2	SUB PAGE	K 18	VOLUME -	K 34		K 50	CH RETURN
КЗ	MODE	K 19	VOLUME +	K 35		K51	7
K 4	STORE	K 20	MENU UP	K 36		K 52	8
K 5	SIZE	K 21	MENU -	K 37	HYPER BASS	K 53	9
K 6	HOLD	K 22	MENU +	K 38	S_IN	K 54	PR/CH/CG
K 7	REVEAL	K 23	MENU DOWN	K 39	P/S/N	K 55	0
K B	RED	K 24	MENU OK	K 40	TV POWER	K 56	-/
К 9	GREEN	K 25	REC ●	K 41	SLEEP TIMER	K 57	
K 10	CYAN	K 26	INDEX	K 42	CH PAGE -	K 58	
K 11	TV	K 27	TV/TXT/MIX	K 43	CH PAGE +	K 59	
K 12	EXT	K 28		K 44	1	K 60	
K 13	POWER	K 29	YELLOW	K 45	2	K 61	
K 14	EXIT	K 30	DISPLAY	K 45	3	K 62	
K 15		K 31		K 47	4	K 63	
K 15		K 32		K 48	5	K 64	

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1 UPPER

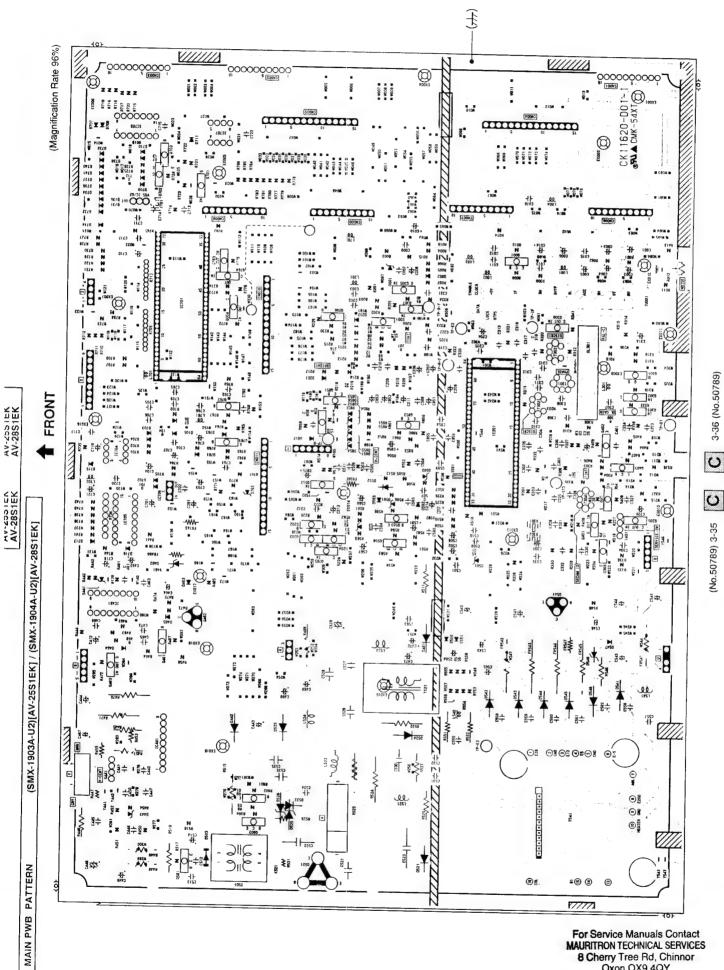
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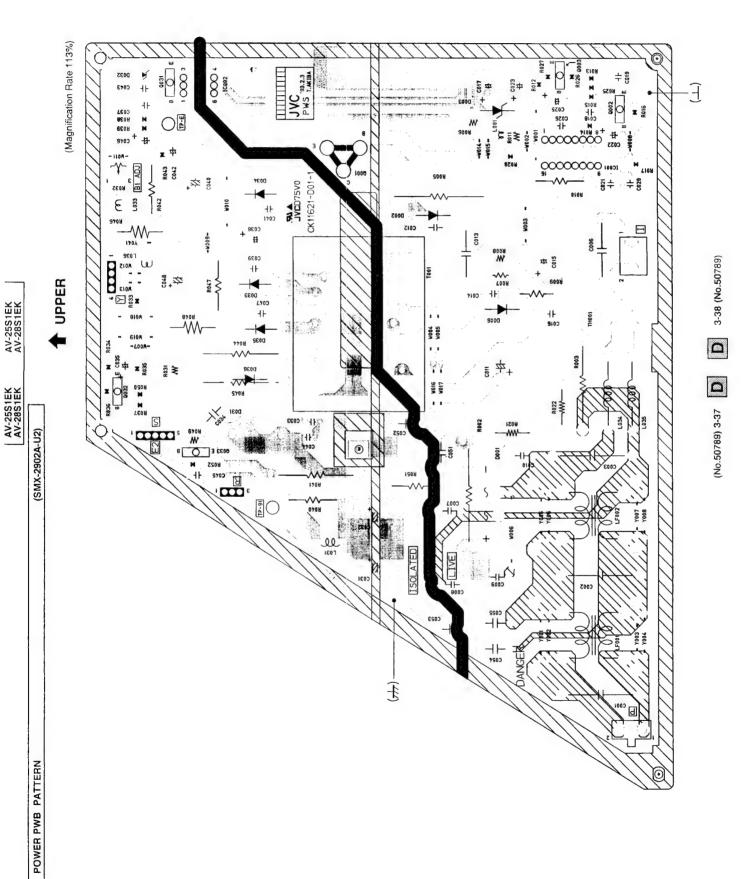


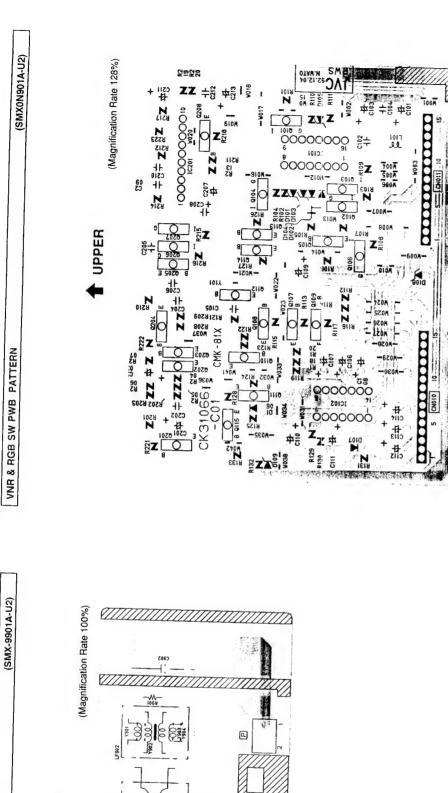
AV-25S1EK AV-28S1EK

AV-25S1EK AV-28S1EK (No.50789) 3-33 **B** 3-34 (No.50789)



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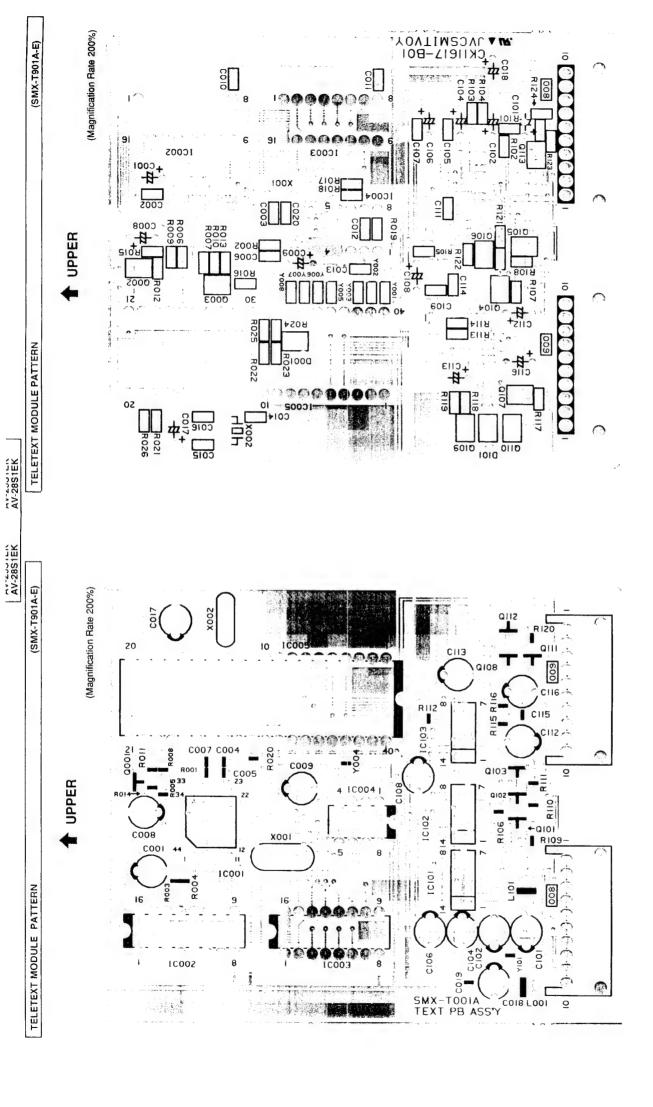
FRONT

MOS

AV-25S1EK AV-28S1EK

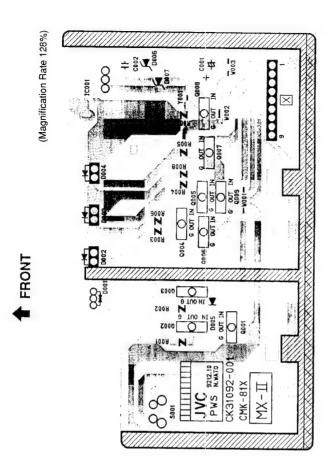
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E FILTER PWB PATTERN



(No.50789) 3-41 **F** 3-42 (No.50789)

SIDE CONTROL PWB PATTERN

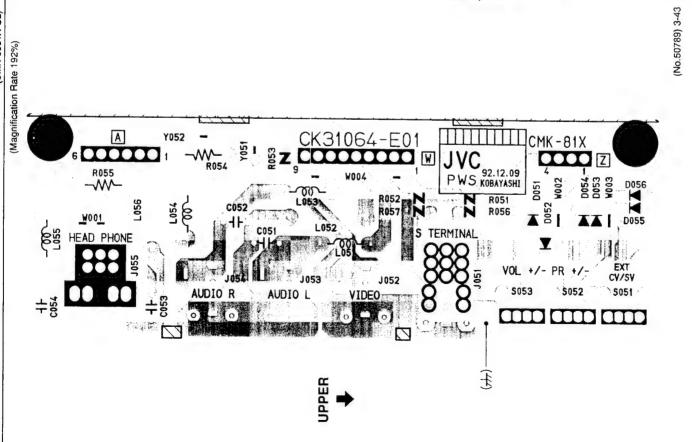


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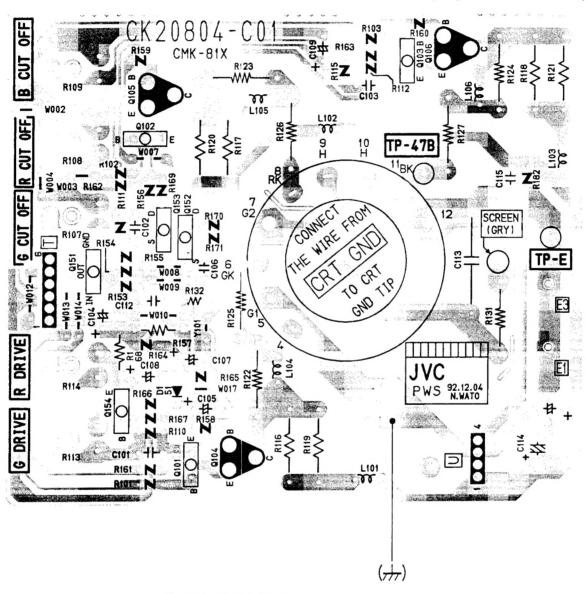
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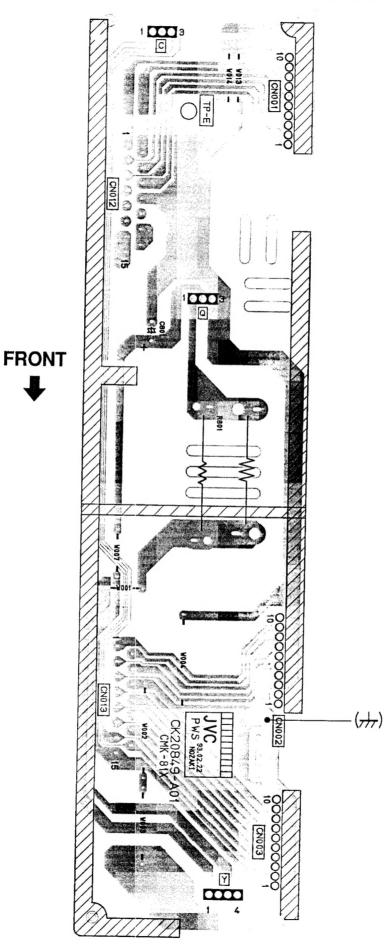


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(SMX-6951A-U2)

2

(Magnification Rate 100%)



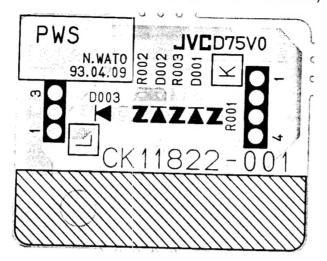
UPPER (Magnification Rate 90%) 日[†] R713 C715 0000000 **Z**.#E CF102 CF101 R771 N C658 ZZ W004 Z PHASE 11 R138 V355 C137 R412 中 5 P-R TP-L W048 R301 R408 R416 हुँ के हुँ के द्रुह्म + Θ((++-)

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Email:- enquiries@mauritron.co.uk

(SMX-7901A-U2)

(Magnification Rate 200%)



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